The National

Future Farmer

June-July, 1979

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The National
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A Word With The Editor

There is excitement in the air when FFA changes National Advisors. It has only happened four other times in the organization's history. Now it is happening again.

Mr. H. N. Hunsicker has accepted retirement and has been replaced by Mr. Byron F. Rawls. Others who have held this position in the past are: C. H. Lane, 1928-33; J. A. Linke, 1933-41; Dr. W. T. Spanton, 1941-61; and Dr. A. W. Tenney, 1961-65. Dr. Tenney is the only living member of this group and now resides in Florida.

Mr. Hunsicker had the determination to succeed even when those with less courage would quit. Because of his dedication to FFA members, he was never happier than when he was shaking hands with a member of the FFA. He is a good extemporaneous speaker and some of his best speeches were made when he talked with a group informally. His ambitions and dreams for FFA were unlimited.

Mr. Hunsicker could keep some of us spellbound with his stories about FFA. He was a student at Boyce Agricultural High School in Virginia in 1926 when the Future Farmers of Virginia was organized. In recalling those early days, Mr. Hunsicker remembers that he was one of the "Smith-Hughes" boys as the students were called by many at that time because of the federal act that created vocational agriculture. He also remembers that Dowell J. Howard, who later became National FFA Treasurer and state FFA advisor in Virginia before serving as state superintendent of education, was one of three outstanding ag teachers he had.

Mr. Hunsicker is a member of many organizations and has been very active in his Methodist Church where he has served on the board for many years and taught a church school class of about 100 college-age students. He and his first wife, Betty, who died in 1976, have two sons and five grandchildren. Philip of Lexington, Virginia, is a minister and contractor and David of Arlington, Virginia, is a Lt. Colonel in the Air Force. Mr. Hunsicker has since remarried and he and his wife, Matha, will move to their new home near Madison, Virginia. You can read more about Mr. Hunsicker on page 7.

Mr. Rawls comes well qualified for the position of National Advisor. He has served on the national FFA Board of Directors for several years which has provided an excellent background for his present position by the owl as National Advisor. There is more about Mr. Rawls on page 8.

Wilson Carnes

In This Issue

National Advisor Retires 7
New National Advisor 8
A New Perspective 14
Gasohol 20
Action in the Treetops 22
FFA in Washington 25
Taking a Lion's Share 30
Milestones—FFA Calendar 38
Southwest Chili Farming 40
Harvest from the Bay 52

In Every Issue
News in Brief 4
Looking Ahead 6
From the Mailbag 12
Chapter Scoop 34
FFA in Action 42
The Joke Page 54

The Cover

Just as we focused on FFA member Mark Deatcher for our cover, this issue of your magazine zooms in on the area of natural resources, of which trees are a prominent part. Resources stories cover subjects ranging from bay fishing to alternate fuels. Mark's New York chapter is featured on page 20. *Cover photo by Jeffrey Tennant*

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The FFA NEWS IN BRIEF

CURRENT EVENTS IN FARMING are the focus of *Farmers' Newsletter,* a USDA publication. In the newsletter, FFA members can read hard facts and figures that could aid in farm planning and decisions. Six editions, free of charge, cover the areas of wheat, feed grains, livestock, soybeans, cotton and general topics. To subscribe, write *Farmers' Newsletter,* USDA, ESCS, Room 0005-S, Washington, D.C. 20250.

LAWRENCE AUGENSTEIN, the first FFA member bestowed the American Farmer degree, recently visited the National FFA Center. Augenstein, a native of Ashley, Ohio, received FFA's top degree in 1928. He served as vice-president on the first team of National FFA Officers and president of the Ohio FFA Association. Augenstein, shown above, is flanked by H. N. Hunsicker at left and Don McDowell. All three were original charter members of FFA.

COLLEGE SCHOLARSHIPS totaling $3,600 are available to six graduating FFA members active in Angus beef projects. Three female and three male winners will be chosen, with recipients in each category receiving awards of $1,000, $500 and $300. Entry deadline is June 25. Apply at state or regional American Angus Auxiliaries, or contact Mrs. Jack Rae, 3837 Crain Road, Onondaga, Michigan 49264.

INTERNATIONAL FFA activities for the summer include the departure of 30 Work Experience Abroad participants for 16 countries including Europe, New Zealand and Australia. Before arriving in West Germany on June 6 for orientation, the group will spend two days in Washington, D.C., and the National FFA Center. Counseling and seminars in communications and foreign policy are on tap for the outbound students. In other news, a Panamanian school principal is currently learning more about FFA's operation at Virginia Tech in Blacksburg. Belisario Medina will study the organization for nine months in an effort to strengthen his country's counterpart to FFA, the Asociacion de Futuros Agricultores de Panama.

NEW STAR SPONSORS ($5,000 or more) to the National FFA Foundation general fund are American Cyanamid of Princeton, New Jersey, and the Greater Kansas City Chevrolet Dealers Association. Hallmark Cards, through the Hallmark Educational Foundation of Kansas City, is now co-sponsor of the National FFA Chorus. Hallmark has long supported FFA activities including chorus and band dinner at the national convention.

THE NEWEST NATIONAL contest, extemporaneous speaking, will feature four FFA regional winners in competition during a session of the 1979 national convention. The event closely resembles the public speaking contest in structure. Convention dates are set for November 7-9 in Kansas City. Recently, the National Association of Secondary School Principals placed the annual meeting on its list of approved activities through the next decade.

DETERIORATING QUALITY of applications for proficiency awards and American Farmer degrees prompted the FFA Board of Directors to express concern over application procedure. Bob Seefeldt, program specialist for awards, says candidates and advisors are urged to report only reliable and realistic information, check efficiency factors, overall accuracy and internal consistency.

FIRST TIME VISITORS to the Embassy of the Peoples' Republic of China included the editors of *The National FUTURE FARMER.* Commercial Counselor Peng Lin Po, pictured below, told his visitors the U.S. and China have a long history of export and import trade. U.S. Foreign Agriculture Service officials say Sino-American trade is already a bright spot for overseas sales of major U.S. commodities.

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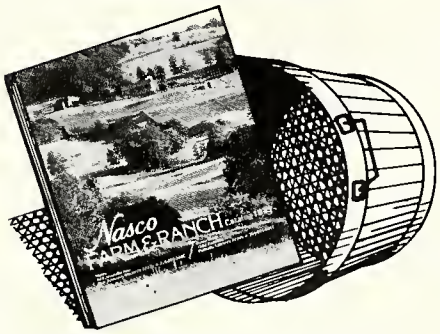

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Agriculture

LOOKING AHEAD

UNEMPLOYMENT ON THE FARM among residents totaled about 3 percent in 1977, compared to 7.5 percent for the rest of the country. The latest USDA-Bureau of Census study also relates median figures indicating farm residents are older and earning less money than counterparts. In 1977, 3.6 per cent of the U.S. population lived on farms, a sharp contrast to just 60 years ago when 30 percent claimed farm residency. The median age, or exact middle of all ages in farming, is 35. Median income is $11,663.

NEAR RECORD FARM INCOME, in net figures, is currently estimated by the USDA for 1978. After subtracting production expenses, estimated income for the year is second only to 1973's record and nearly 40 percent above 1977. Higher cash receipts, particularly for livestock, sharply offset a 9 percent increase in costs of production. But not all prices received moved up. Marketing receipts for wheat, corn, grain sorghum and cotton dropped.

POULTRY OVER PORK became the rule and not the exception in 1978 in American dining. For the first time in history, according to a report from ContiCommodity Services of Chicago, U.S. consumers ate more poultry per capita than pork. Broiler and egg sales have increased annually, due in part to the growth of fast food stores and higher prices per pound for beef. Fast food now accounts for 30 percent of all chicken consumed in the U.S.

FAMINE AND CHAOS could result if global food production does not double in the next 40 years, warns Dr. Norman Borlaug. Borlaug, a Nobel Prize winner for wheat research, cited 1975 world food production of 3.3 billion tons to feed 4 billion people. The scientist looks to year 2015 when earth's population is estimated to exceed 8 billion. Edward Caplan, editor of *World Development Letter*, notes if production merely keeps pace with population growth, the same percentage of starving people will still exist.

NO MORE FAT CATTLE. The USDA has discontinued use of the terms "fat" and "fattened" in defining cattle on feed or for slaughter. The American Farm Bureau suggested the change in terminology to reflect modern production practices geared to lean, meaty carcasses.

NEW MARKETS FOR U.S. GRAIN, both here and abroad, could mean a boost in farm incomes through increased demand. USDA economists say net export values will continue to climb and hit record levels through 1979. Planted acreage of corn, soybeans, cotton and wheat is up in 34 states, so foreign marketplaces will remain a welcome outlet for sales. Can't count on the USSR, though. Both grain and meat production hit record highs last year. Grain alcohol for U.S. fuel could mean a big new customer for crops—distilleries.

FARM DEBT continues to rise, says Howard Hjort, director of Agricultural Economics for USDA. But Hjort told *The National FUTURE FARMER* that book value of farm assets is also on the rise. He said land values increased 14 percent from 1978 to 1979, and food prices at the farm level are increasing 30 to 40 percent annually. That's three times more than the general rise in prices.

SWELTERING JUNE WEATHER may not only reduce the dairy farmer's will to work but also his herd's efficiency. Dr. R. W. Stanley of the University of Hawaii says hot temperatures bring production problems to milk cows. His studies reveal cattle gain excess weight, consume less roughage and show a drop in butterfat when thermometers top 80 degrees. Since acid build-up in the rumen is one cause, Stanley suggests feeding sodium bicarbonate to act as a buffer. Initial dose: 0.25 pounds per day.

TOBACCO FOR DINNER? S. G. Wildman writes in an American Society of Agronomy publication, "Tobacco could some day be grown for human food." Wildman reports high-quality proteins can be concentrated from tobacco and used as nutritional supplements. After protein extraction, a leafy residue remains that could still be used in cigarettes. Fresh tobacco contains 80 to 90 percent water, the remaining percentage made up of sugar, vitamins, proteins, starch and cellulose.

A PRESIDENTIAL PROPOSAL to create a U.S. Department of Natural Resources (DNR) is under study because "present federal organization for managing natural resources is scattered and cumbersome." Under the program, the Forest Service would move from the USDA to DNR.

"Here by the Owl" for 14 years

National Advisor Retires

He served as FFA's fifth National Advisor.

Mr. H. N. Hunsicker

THE vocational agriculture student from Virginia, who rose to FFA's highest office of National Advisor, will retire on May 19. Closing out an ag career that began as a vo-ag student some 53 years ago, Mr. H. Neville Hunsicker leaves his position "by the owl" at a time when FFA's prestige and accomplishments are at an all-time high.

The first FFA member to become National Advisor, Mr. Hunsicker was a student of vocational agriculture at Boyce, Virginia, Agriculture High School when the Future Farmers of Virginia was organized in 1926 and he became a charter member. Two years later, when the FFA was organized, he became a member of the FFA.

Born and reared on a farm near Millwood, Virginia, Mr. Hunsicker earned a B.S. degree in Agricultural Education at Virginia Polytechnic Institute in 1931. Later he was granted a M.S. degree by The Ohio State University in 1947. He continued further graduate studies at the University of West Virginia.

After graduating from college, Mr. Hunsicker taught vocational agriculture at Wayne, West Virginia, from 1931 to 1935 and West Virginia became his adopted state. In 1935, he became assistant state supervisor of agricultural education and state FFA executive secretary with offices located at Charleston, West Virginia. In 1946, he was named state supervisor of vocational agriculture and state FFA advisor. Later, in 1952, he became a program specialist for the North Atlantic Region in agriculture education in the U.S. Office of Education and moved to Washington, D.C.

Mr. Hunsicker assumed the duties of National FFA Advisor in 1965. Prior to this time, however, he had considerable experience as a member of the national FFA Board of Directors. He was first elected to the board in 1951 while serving as state supervisor in West Virginia. He continued to serve as a member of the Board when he moved to the U.S. Office of Education in 1952.

As National FFA Advisor, Mr. Hunsicker also had several other major responsibilities. These included chairman of the FFA Board of Directors, president of the FFA Foundation and a member of the national FFA Alumni Council.

Mr. Hunsicker's contributions to agricultural education have been many. In its November, 1977, edition, *Agricultural Education* magazine listed eight areas where Mr. Hunsicker had made major contributions at the national level—and that list was not complete. Under his leadership, the instructional program in vocational agriculture has been broadened to include preparation for agribusiness occupations, as well as farming; ag programs in post-secondary schools were broadened; seven major national seminars were held, program standards were developed, transitions to competency-based curriculums were made and a major identification of employment opportunities in agriculture/agribusiness was completed.

As state supervisor in West Virginia, Mr. Hunsicker was instrumental in founding the State FFA/FHA Camp and Conference Center at Ripley. On the national level, the FFA Alumni Association was organized; FFA membership, activities and awards have increased significantly; and one of his dreams, an organization for post high school students, has been realized.

Mr. Hunsicker announcing his decision to retire to the staff at FFA Center.

In an interview after he had announced his decision to retire, Mr. Hunsicker had these comments from his station by the owl for FFA members:

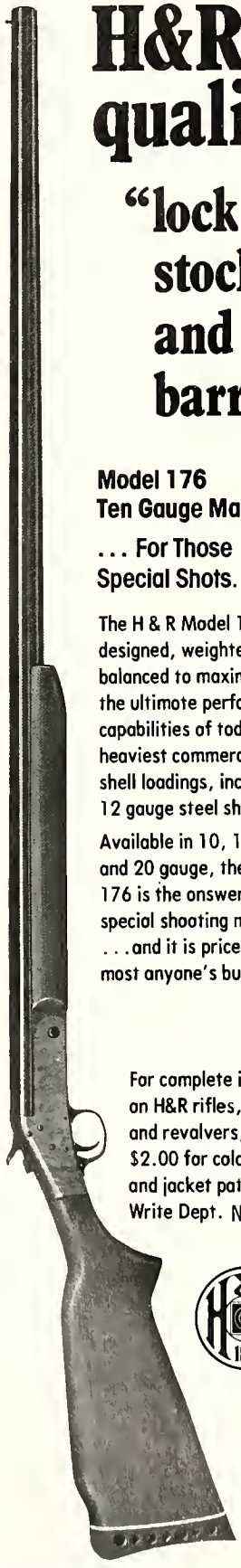
"First you have got to be involved and accept all opportunities that come your way for involvement. Any student who is asked to participate and constantly refuses will be left uninvited. Through participation is the only way you ever learn. I don't know of anyone who can read a book and tell you how to ride a bike."

For teachers, he said, "Teachers need to have a compulsion to make sure every student is involved. Give every student an opportunity to excel. Good teachers will find areas that students can excel in and will then write newspaper articles about them. Second, in occupational experience or anything else, insist upon man-sized involvement. Teachers must see to it that a student does not have 25 chicks when he should have 1,000."

Mr. Hunsicker leaves office with his enthusiasm for FFA as great as that of any Greenhand. "FFA has certainly had a glorious past but it has a brighter future," he said. "Opportunities for rewarding careers for those who are prepared are unlimited," he continued, "but FFA cannot help students unless they are involved."

Mr. Hunsicker has not only worked for FFA throughout his professional career but he lives by the principles FFA teaches. Perhaps no better statement could be used to describe him than those words from the closing ceremony used at FFA meetings. ". . . diligent in labor, just in our (his) dealings, courteous to everyone, and, above all, honest and fair in the game of life."

That is about the best thing that could be said about anyone.



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New Advisor Named For FFA

ON May 21, 1979, Byron Rawls assumed the duties of a demanding and respected job—a calling symbolized by the wisdom of the owl. The former FFA member from Pleasant Home, Alabama, became the sixth National Advisor since FFA's creation in 1928.

The new advisor's hometown name fittingly describes the FFA's top official, who subscribes to a basic philosophy of "a hard day's work using the few talents I have." All modesty aside, Byron Rawls is a man of many talents and an active experienced voice in the world of vocational agriculture.

Rawls' involvement with FFA and vocational agriculture began in his freshman year of high school. Farming a diversified operation of crops, FFA became "the inspiration for me to pursue a professional career. When my vo-ag teacher laid his hand on my shoulder I was 20 feet tall." He adds with an appreciative beam, "I haven't come down yet." By holding the lead job in agricultural education for the U.S. Department of Education (USOE), Rawls is at a pinnacle in his profession.

Mr. Byron Rawls, National FFA Advisor.

Following high school, Rawls carried his inspiration into World War II. Serving his active duty with the Army's combat engineers and signal corps, he returned home after action in battle at Okinawa. He then began studies of agricultural education at Auburn University, completing a bachelor's degree in 1949.

Rawls' teaching career commenced at Evergreen, Alabama, a job he filled for five years. In 1954, he initiated another five-year stay at the Auburn, Alabama, High School, a period that also saw his completion of a master's degree from his undergraduate alma mater.

"In 1959," he recalls, "I joined the State Department of Education as Alabama FFA executive secretary. It was a full-time job then. In 1964, I was assigned to work as a program specialist in agricultural education curriculum development and subject matter."

With vocational education his forte, Rawls later became an officer of agricultural education in the USOE's Bureau of Adult, Vocational, and Technical Education, Region 8. Later, Rawls assumed broader responsibilities as regional director of vocational education. But he kept immersed in a specific facet—agriculture.

"Working with the total vocational education program," he says, "I found a broader base and more contact with education officials. I found good opportunities to speak for vo-ag." Being based in Kansas City, Rawls also benefited from a certain occasion.

"The National FFA Convention," he asserts, "and its implementation, is the best way to see the total picture of FFA and vocational agriculture. My involvement with the convention, FFA Board of Directors and Board of Trustees has been invaluable to me.

"I'm convinced vocational agriculture is one of the most basic and important programs we have in our educational system. We're in the business of feeding and clothing people, and also building citizens that will make good employees. And FFA is an integral part of the program. We don't just put a blue ribbon on the pig, we put one on the student, too."

Before being named National Advisor and USOE's program specialist in agriculture, agribusiness and natural resources occupations, Rawls had already relocated to Washington, D.C., as part of a staff centralization plan. Until May, he was Southern Branch Chief for the Division of State Vocational Program Operations.

Rawls firmly believes FFA and vocational agriculture are "geared to success, with the objective of enriching the lives of those students who want to be in the industry of agriculture." We in FFA look forward, Mr. Advisor, to your advice "based on true knowledge and ripened with wisdom."

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Maintenance-free battery	yes	no	no	no
200 hour oil change interval	yes	no	no	no
Torsion bar sensing	yes	no	no	no
Suction line filtration	yes	no	no	no

AGRICULTURAL EQUIPMENT GROUP
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Readers Report

MAILBAG

Stillwater, Minnesota

Since you have printed a story about the 25th Anniversary stamp for FFA, you undoubtedly will be getting questions about why not a 50th Anniversary stamp.

Among other things, I have been collecting U.S. stamps since before FFA days and have two full sheets of the 25th Anniversary stamp. I am going to display them in the ag department here now that you have published the story. But I will need some backup from national FFA as to why not a 50th stamp. Any live wire FFA member will want to know.

Ray Erwin, Advisor

A strong attempt was made by the Board of Directors and friends of FFA, like past national officer Lester Poucher of Florida, to get the Citizen's Stamp Advisory Commission to recommend that FFA be one of those honored with a commemorative stamp. It was rejected. Then after a great deal of support rallied in Congress and around the capital, it was added to the agenda of the Commission for reconsideration. It was rejected again. They reportedly get over 1,500 requests for commemorative issues yearly.—Ed.

Jefferson City, Missouri

I always appreciate items related to Missouri programs or Missouri people and in the current issue enjoyed the article relative to the chapter at Troy. I also read the article entitled "FFA Gets A Stamp." Is there any place where one could buy one or two of the first-day covers of that stamp? I would like it for my collection and I thought maybe in the Supply Service or some place there might be some first-day covers still available.

B. W. Robinson
Missouri Department of Education

There are no 25th Anniversary FFA stamps available from any official source. Perhaps there are some from collectors or non-collectors who have extras.—Ed.

Elko, Nevada

The Ruby Mountain FFA Chapter of Elko, Nevada, has designed a BOAC project to bring competent and hard-working agriculture students into the state to ease the labor shortage during haying season.

We're looking for FFA members who would like to spend their summer on a cattle ranch in Nevada—either resident or out-of-state agriculture students to help with the haying season in the county.

Our first step was to draw up a survey that was taken to the surrounding ranchers. We questioned them on their preferences as to age, sex and experience that they would require. These ranchers were very responsive to our idea and encouraged us to follow through with the project. We are now involved with publicizing our project and would like to encourage any interested chapter members or agriculture students to contact us.

Elko County is located in the northeastern corner of Nevada. It is proud of the beautiful Ruby Mountains and the Humboldt River that run throughout the entire area. Cattle ranching, gambling and tourism are the main sources of income with the cow-calf industry here being the largest in the state. These cattle ranches range in size from 300 to 1,200 head of cattle where native mountain meadow hay is raised and cut in July and August.

If you would like to spend your summer months doing hard but rewarding work driving a harrowbed, swather, baler or rake, please contact us. We will send you an application and any other information you would like. Our address is: Ruby Mountain FFA, Elko High School, 987 College Avenue, Elko, Nevada 89801.

Jess Sustacha

Ralls, Texas

I was interested in the article on Telcot cotton marketing in your column "Looking Ahead" in the February-March issue. I think you would be interested in knowing that one of our former local members is the coordinator of the Telcot program with Plains Cotton Co-op Association. He has been with the program for 19 months and has worked with gins in Texas and Oklahoma in setting up their program. He was a local chapter officer and received his State Farmer degree.

Lewis Knight, Advisor

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Photos by Author

Life in these United States

A New Perspective

By Jack Pitzer

"WE were out of our country and continent for 15 days, away from our hometowns. Each of us had learned how much we missed our native land. Whenever people are deprived of something, they realize how much it means to them. Because of this travel seminar each of us FFA members developed our own personal new prospective about life in these United States."

This was the summary report of a 15-day trip to Europe for the 1978 National FFA Proficiency award winners named at last year's national convention. Besides their cash award, this trip was organized by FFA and sponsored by the National FFA Foundation to give these high achievers greater recognition.

The seminar participants came to the National FFA Center on their own, passport in hand and packed to see Europe. After orientation by experienced travelers regarding cultural differences, USDA world trade officials, FFA staff members and embassy representatives, the FFA'ers realized the free "trip" would really be a serious learning adventure.

The FFA'ers were in Luxembourg, France, England, Holland and Belgium where they visited farms, experiment stations, formal gardens and many of the famous attractions of Europe.

Everyone, of course, was particularly interested in his or her area of proficiency—livestock, mechanics, horticulture, agribusiness.

Consequently, everyone was busy with cameras and note pads getting facts in which they were particularly interested. Tons of questions can come out of a group of FFA'ers and this seminar group was a champ at digging out facts.

The windmills of Holland were proof of the old ways and the ingenuity of the Dutch in the reclaiming of their land. And like all tourists in Europe, the FFA Proficiency Travel Seminar had to include a stop for photos at the Eiffel Tower. The 15-day travel experience was recognition for the National Proficiency winners of 1978. Besides France and Holland, they visited farms and other agricultural sights in England, and Common Market in Belgium, the city of Luxembourg and even made a stop en route in Iceland where it was 22 degrees below zero and blowing snow.

In order to put together a final report for their Foundation sponsors, and for a Congressional breakfast back in Washington, two students were assigned as reporters each day of the trip. (Each of the national proficiency winners is also available to speak to local chapters—including a slide presentation prepared by the seminar staff.)

A typical set of experiences for one day was written by Jon Brown, Oklahoma, and Dennis Engelhard, Michigan, on March 7.

"The day began at 7:30 a.m. with a continental breakfast consisting of hard French rolls, jam and tea or coffee. We met René, our bus driver, at 7:45 a.m. and were on the highway by 7:50 a.m., ten minutes ahead of schedule. We passed through Esch, the main industrial center of Luxembourg, where 22,000 of the country's 300,000 people are employed.

"The World War I battlefield and Memorial Museum at Verdun was the first stop. This museum is located on the site of the Fluery train station which was destroyed along with that entire village in the most intense trench warfare of World War I from February 21, 1916 to July 7, 1916.

"After leaving the winding wooded roads of the battlegrounds, we were soon on the toll road to Reims in France. The four-lane expressway or limited access driving made us feel as though we were in America rolling down an interstate highway.

"Farmland bordered the highway on both sides. An occasional village or factory appeared in the midst of the land. The land was a brown-to-reddish clay loamy soil with a white chalky subsoil. This very basic subsoil is the main reason grapes thrive in France. Spring plowing was beginning in many areas and fertilizer spreader tracks were common.

Photo by Rusty Coe

The FFA'ers were eager to find out what this European farmer was feeding his beef, so they tasted the pellets.

"Most plows were three- or four-bottom mounted rollovers. Plowing appeared six to eight inches deep, but in many places trash coverage appeared poor.

"We arrived at Reims at 12:30 p.m. The city was highlighted by the magnificent 13th century cathedral which we visited briefly after lunch. Our first experience of ordering food when we couldn't speak the language was at a restaurant, located about a block from the cathedral. René had to help us order in French and keep our French currency straight.

"After lunch we met our guide and interpreter, Caroline Hall, in front of the Reims Cathedral. Standing there, we were all impressed by the massive architecture, yet delicate sculpture on the exterior of the cathedral. When inside, we learned from Caroline that construction of the cathedral began in 1211 A.D. and was finished 200 years later.

"From the Reims Cathedral we traveled to a large farm in northern France. We learned many facts about French agriculture as Caroline interpreted for the wife of the owner and for the supervisor of cereals or crop production. We learned their operation consisted of 450 hectares or about 990 acres and was comprised of beef, wheat and sugar beets. In their beef operation they feed only bulls which were mainly Charolais and Salars. This was our first opportunity to learn that they weren't castrating bulls on feed. The feed ration was a mixture of beet pulp, sweet corn, sugar beet leaves and leftover wheat.

"We left the beef center just as it began to rain and headed for Paris. By 6:45 p.m. we started seeing the lights of Paris on the horizon and spotted the Eiffel Tower. At about 7:00 p.m. we rolled into the Ibis Hotel, under the skillful driving of René, in a city of mad drivers."

In Paris the International Agriculture Show (the biggest ag show any of the group from 14 different states had ever seen) took two days, including time to call on exhibitors of companies whose U.S. counterparts sponsor FFA Foundation activities.

Obviously no visit in Paris is complete without the Eiffel Tower, Notre Dame, Palace of Versailles and the Louvre Museum which has the Mona Lisa and the Venus de Milo.

Next, the group skimmed over the English Channel in a hovercraft and on to London to see Big Ben, Westminster Abbey and the Royal Botanical Gardens.

In Holland, the seminar visited cheese, wooden shoe, and Delft pottery demonstration factories plus a large cooperative flower auction before a canal tour of Amsterdam.

A visit with the U.S. Mission to the European Economic Community in Brussels, then a stop in Luxembourg before the participants returned to the United States.

"We acquired many new ideas and values concerning agriculture, life-styles and personal beliefs. And even though we traveled over 10,000 miles in five European countries, the greatest highlight of the trip was getting to know ourselves and our country better."

THIS IST

"BACK HOME, I WOULDN'T MIND DOING THE WORK I'M DOING HERE."

E-5 Larry Sarver,
Fort Bragg, N.C.

A lot of people have the idea that a skill you learn in the Army is good only in the Army. Or that most Army skills take more brawn than brains. The fact is: the modern Army

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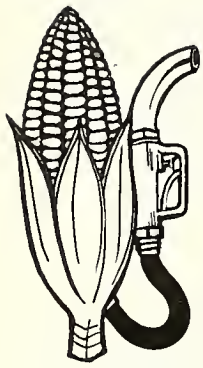

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Gasohol

Finding its place in the tank.

By Jeffrey Tennant

THIS very day, 56 people will satisfy their clothing and hunger needs with food and fiber produced by a lone American farmworker. People around the globe will find comfort, thanks in part to the world's largest exporter—the Amercian farmer. Today's food growers are more efficient than their fathers ever dreamed—working with 3 percent less acreage, but producing over 54 percent more output from precious land.

It all takes power. More power than can be imagined. Crews of steel and moving parts continue to replace the calloused hands and sweating brows of living soil tenders. Mighty machines nurture and pluck the earth's fruits and send it to the mouths of an ever-populating world. It takes power, hot power with an unquenchable thirst for fuel. And the price of a drink keeps soaring.

But oil has a new flavor now—a concoction called gasohol. It's received both credits and curses but one fact remains—it's being pumped into gas tanks everywhere.

Gasohol is a mixture of 90 percent unleaded gasoline and 10 percent ethyl alcohol (ethanol), a liquid derived from distilling corn, sugar beets and other dried grains. Much of today's ethanol is obtained from edible grains but researchers are working to make fuel-grade alcohol from agricultural residues such as weeds, manure, spoiled grain and corn stalks.

To burn the mixed-in alcohol, no modifications are needed on engines requiring unleaded gasoline. In Brazil, a country that has experimented with alcohol in gasoline since the 1920's, hundreds of vehicles operate on straight (200 proof) alcohol.

Over 400 gas stations in Iowa are pumping the new fuel, with many midwestern states jumping on the bandwagon. Nationwide, even more stations are expected to retail the fuel in light of recent approval by the Environmental Protection Agency allowing substitution of gasohol for unleaded gasoline. Many station owners are happier, and wealthier, from selling the mixture.

Touted as "America's homegrown fuel," gasohol is finding consumer acceptance.

"It's driving us crazy," says a Virginia petroleum wholesaler. "We got into it on a lark and the success has been phenomenal. The first few months were slow, but lately we've been selling between 1,500 and 2,000 gallons a day. We've opened two stations and are hoping to open three more."

Consumer acceptance of the product is blossoming. Iowa Governor Robert Ray comments on a recent gasohol market report: ". . . people will buy gasohol, they will buy it in sufficient numbers to create a viable market and they will pay a few cents extra for the additional benefit . . . ."

Price per gallon for the fuel is becoming more competitive as oil prices rise. The Virginia wholesaler is retailing the mixture at 81 cents per gallon, not far from unleaded cost. Ethanol itself is around $1.50 per gallon but the 9 to 1 ratio spreads the total cost. Recent motor fuel tax exemptions, both state and federal, can knock as much as 13 cents off gasohol's per gallon fee. Even at 5 cents over unleaded, the Iowa Development Commission reports 73 percent of 1,463 people who tried gasohol as a test would use the stuff again regularly. Why the preference?

"Gasohol in an 8 to 10 percent mixture can be a great fuel additive," says Jim Bishop, director of public affairs for the Department of Energy. "It's a wonderful replacement for the lead that is removed in the making of unleaded gas."

Boosters also claim alcohol increases mileage and octane while reducing pollutant emissions, engine knock, engine heat and gas line freezing. However, scientists say a blend of ethanol with diesel oil for powering farm tractors is not feasible technically or economically. Using "dieselhol," one test proved fuel consumption increased and horsepower decreased.

Why should farmers concern themselves with alcohol in fuels if it can't be used with diesel? Of the $180 billion spent for U.S. farm goods last year, $124 billion went to moving food from farm to table. American farmers paid $14.9 billion for fuel and oil to keep their machines at work. And the bill keeps rising. Gasohol could reduce U.S. dependence on foreign oil by as much as 30,000 barrels a day. For farmers,

(Continued on Page 32)

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Action in the TREETOPS

By Jeffrey Tennant

TELL anyone in the Northern Westchester FFA to "go climb a tree!" and you'll probably see it done—very quickly and with trained expertise.

In fact, over two-thirds of the 50 FFA members in this New York chapter spend months learning the very challenging—and salable—skills of tree care. Well-geared young people flying through branches and scaling giant pines is a common sight around the 240-acre school campus. Their FFA advisor, George McCabe, affectionately calls them "tree persons."

"The main purpose," says McCabe, "is getting the student a job in arboriculture, tree science. We think we're tapping a good thing. For students wanting this line of work, and it's tough, jobs are absolutely no problem to find. And most are around home."

Overall, the school's job placement record for work-bound graduates nears 100 percent. Called a BOCES, meaning Board of Cooperative Educational Services, the school is a prime example of productive occupational education. Students attend regular classes at one of 18 area high schools, then bus to the BOCES for specialized training in a chosen job area. The students' home schools pay tuition and fees.

Over 3,000 students move through the total program, which includes courses ranging from horticulture to data processing. Tree persons learn hard and fast. After all, the field of study is their choice.

"If you want something, you'll work for it harder," offers John Grant, chapter president. "I want to be a forest ranger. Here I can learn landscape design, surveying and plant diseases along with the climbing. Plus, you gain confidence. You can't let life's ambitions just come to you. You go after them."

At the BOCES, students definitely earn their trade by personal endeavor. A first-year curriculum in tree care includes saw and machinery operation, tool sharpening, soil science, tree rooting and moving. Tree bracing, plant feeding and cavity work (caring for hollow places) teach students the methods of maintaining or restoring tree health. Theory and safety are taught simultaneously and usually outdoors.

"We prefer field work to the lecture," says Linda Murphy, one of eight girls in the chapter of climbers.

Yellow headgear, blue jeans and plaid shirts brighten the forest when the "tree persons" tackle their studies. Chainsaws serve as textbooks.

Miles of rope, pulleys, harnesses and cutting devices—instruments of learning—fill part of the student lab.

Attending trunk cavities to assure good tree health is but one of the skills needed by working arboriculturists.

"And I'd rather teach there," inserts McCabe. "We're big on spontaneous learning. Knowledge when you need it. When the students are in their element, the forest, they'll ask more questions."

High rankings in New York State FFA conservation and forestry contests indicate the students' desire to learn. In only their second year of FFA activity, John Grant says his chapter "cleaned up" at the state level.

"The few competitions we do, we do a lot of every day," explains John about the winnings. "We're judged on safety methods, technique and how you can move in the branches.

"The basic skill is climbing the tree by using ropes and spikes properly. Every tree has unique trimming needs. You size up each job by using a sense of what should and shouldn't be there. That takes practice. We get lots of it because weather doesn't stop us." His advisor grins. "And neither does Mr. McCabe," adds John.

The chapter also excels in bucking and felling contests. Basically, bucking involves two contestants sawing four 16-foot logs into sixteen 48-inch sections. Sections must then be stacked. Exactness of length and use of safety rules are judging criterion. Contestants also race against competitors' times, working feverishly in a yellow blur of chainsaw smoke and wood chips.

Chapter members say FFA competition helps in career preparation by demanding a constant struggle for perfection. The desire to win FFA contests is incentive to do well during school years. Lying ahead, though, is the main event; and it all begins with a job interview.

The demand for arboriculturists is high, but good jobs are won by those exhibiting a coupling of skill and personal development. FFA, says John, helps build both.

Competing and learning together can indeed convert trainees to experts. Especially when the individuals are striving for a common goal—like the tree persons of Northern Westchester.

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The Hudson Brothers: Starting From Scratch

Good projects and leadership ability come from a will to work and learn.

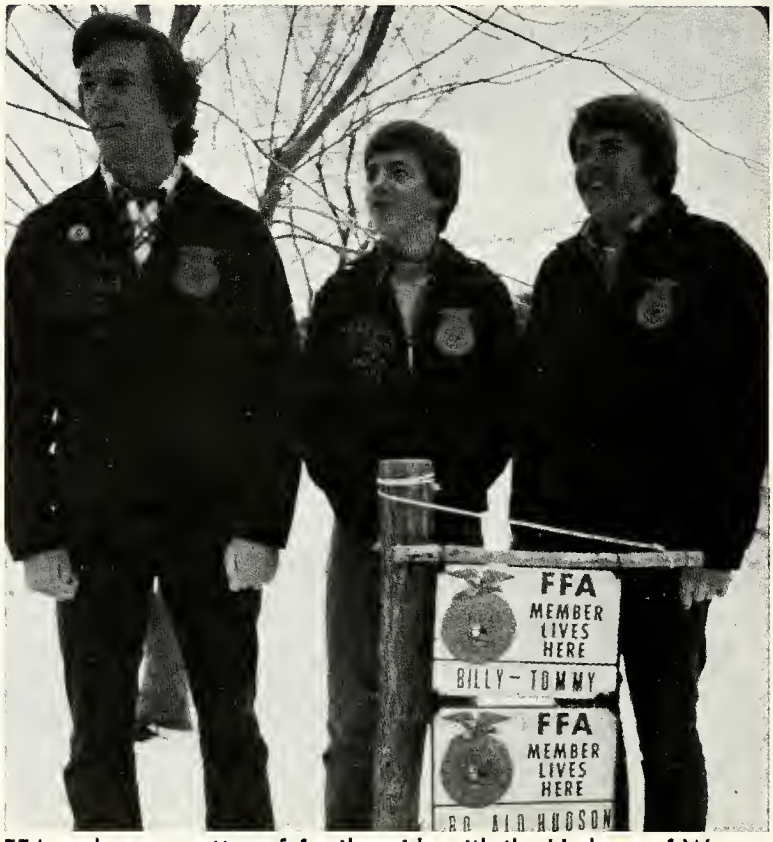
AT first, the lady at the town market had no idea who the Hudson brothers were or where they lived. But upon hearing the surname again, and the first names Tommy and Billy, she knew right away the details of where to find them.

"Oh, you mean those Hudsons," she exclaimed, finally glad to help. "Everybody knows those two."

She wasn't kidding. And after talking with the two brothers, the only pair to ever win regional proficiency awards in the same year (1978), it's no wonder they're well-known.

Natives of the cozy, bayside community of Weems, Virginia, Tom and Billy Hudson have never favored sitting around to getting involved. The two aren't twins, but were close enough agewise to begin their schooling together. Throughout their school years, which ended with graduation last year, the brothers' list of achievements reminds one of a comic book superduo—what one doesn't do, the other does well.

"Tommy is the rambunctious type," says dad Wilbur. "But Billy's always been on the quiet side." The brothers nod in agreement. "And Ron," Wilbur continues concerning the younger Hudson, "is kind of a combination. He wears the same jersey number Billy wore in football and the number Tommy had in basketball." Ron smiles through he admits "it's hard to follow their footsteps."



FFA ranks as a matter of family pride with the Hudsons of Weems.

Tommy's chores include creating a fine putting surface with a triplex mower.

To really follow his brothers' footsteps, Ron would have to do a lot of running. During Tom and Billy's years in FFA, they became leaders in athletics and other school activities. Billy captained the football team, batted clean-up for the baseball squad and eventually made the roster in the Society of Distinguished High School Students. Tommy, on the other hand, was a standout on the basketball team, pitched for the baseball crew and plied his talents in band and choir. Both worked on the paper staff and found a place in *Who's Who Among American High School Students*. But neither talk much about their honorable accomplishments. They choose instead to relate times when they could have done better—evidence of pleasant modesty.

"Once, in baseball, I hit a ball out of the park," recalls Tommy. "But I missed first base. I was already back on the bench when the umpire called me out. I would have had time to run around the bases twice!"

Similarly, the regional winner in Turf and Landscape Management once took a last second, half-court shot in the district tournament that could've won the game. But the ball had other ideas. It hit the rim and bounced out of bounds. "That was my last shot in high school and my biggest disappointment," he sighs.

Likewise, Billy had his share of bad breaks mixed with good. Mother Lois still chuckles heartily when Billy recounts a particularly humbling experience.

"Our football team was on the 25-yard line with three seconds left in the half. A field goal was kicked, missed, and I picked up the ball. I tried to hand it to the referee but he wouldn't take it. Somebody shouted 'Run, boy, run!' so I took off and ran the length of the field thinking I had a touchdown. I'll never forget the announcer saying, 'The ball was dead but Billy wasn't.' "

The entire family jokes freely about the boys' antics in high school but the mood changes slightly when FFA is

(Continued on Page 33)

The U.S. Capitol is home away from home for Connie Young of Vermont.

The FFA in Washington

Serving agriculture in the public sector is the way these former Future Farmers are contributing to the farming industry.

By Jeffrey Tennant

BELONGING to FFA doesn't always mean farming is in your future. Opportunities of all kinds come knocking on the door of the Future Farmer who keeps an unclosed mind.

Agriculture, as the nation's largest and most dynamic industry, introduces new challenges to young people every day. You're studying vocational agriculture to better prepare yourself for an exciting life ahead of your school years. And that excitement can be found in many areas. FFA can help mold your learning into a useful ticket to success.

One particular area of agriculture is getting a lot of attention these days—the public service sector. To serve the nation's agriculturists as a worker in government takes special skills, including leadership, ability to increase your awareness and the knack to solve problems.

We found some past and present FFA members working in Washington, D.C., as public servants of American agriculture. In turn, they found a few minutes to share their thoughts with you.

Connie Young usually starts her day at 5 in the morning. She works until 6 or 7 p.m. and usually hits the hay around 11. Long days. Sound like she's farming?

"The days are longer than farming," she avows. An FFA member from Craftsbury, Vermont, Connie is wrapping up her high school education in a most unusual way. She's a page on the Republican side of Congress. And a very busy one.

"To be a page," she says, "you must be a high school student. I came to Washington in June of 1978 and leave this June. So while I'm here, I go to the Capitol Page School which is funded by the District of Columbia."

The Page School holds classes only in the morning for Connie and her companions. The first class starts at an early 6:10, with the last class wrapping up at 10:30. The pages wade through studies in math, English, sciences, history and business before manning their jobs at 10:45 a.m. Each job is something special.

"I'm a cloakroom page," explains Connie. "I answer phones, tell people the status of bills and other legislative information. If someone calls for a Congressman, I find out who's calling, go to the floor and relay the message. I know all the Republicans in Congress just by looking at them."

Connie remembers witnessing many exciting events during her stay on "The Hill," a nickname for the Capitol and its surroundings. Highlights include Presidential addresses and a marathon 36-hour session of Congress. "I was awake the whole time," she recalls. "We worked 45 hours straight."

The first step in becoming a page is writing your Congressman or Congresswoman. They'll send an application and instructions to return a transcript, parental permission and an essay on why you want to be a page. Each congressional office chooses one application to compete with those of other offices. Finally, a nominating committee selects the pages. Obviously, many are turned down but Connie shares some advice:

"My FFA background helped a lot. Here you're always working with people. Just to get the job you have to show you can handle pressure and then sell yourself. Getting involved now in FFA is a good way to prepare. A broad understanding of agriculture also helps."

Connie began her preparation with FFA activities as a ninth grader, placing third in the state creed contest. She later won honors as Vermont's Star Greenhand, tri-state public speaking winner and state sweetheart. She attended the smallest high school in her state, so she didn't have special treatment or advantage—just determination.

Pages don't live in luxury or make lots of money. Visits to home are few and far between. For some, like Connie, a big city is a whole new experience—sometimes a scary one. But then, new experiences make it all worthwhile.

"It's special just to be here," says Connie. "Before I came, I wanted to

(Continued on Page 28)

Roger Sandman, once an FFA member and advisor, is a key official of USDA.

Hands-on Experience with Hogs

Here's a chapter using a full fledged hog operation to give its members real livestock experiences.

INVOLVEMENT in the swine industry describes the main thrust of vo-ag and FFA at North Shelby High School in Shelbyville, Missouri. The swine industry in Shelby County is extensive with 41 students having swine Supervised Occupational Experience Programs. A breakdown of swine owned by these students for 1978 showed totals of 349 sows, 319 pigs (pre-wean age), 748 feeder pigs, 876 fattening hogs and 50 boars. These numbers include commercial and purebred stock of the major breeds.

The FFA chapter has a hog complex where "doing to learn" can be utilized to its fullest. Presently the hog complex has 7 bred Duroc sows and 26 feeder pigs.

One of the activities the chapter sponsors is a market hog test. The FFA members contact area pork producers for feeder pigs to place on test. The students pick the hogs up and record ear notch numbers; record data of the feeder pigs such as farrowing date, weight and immunizations and deliver them to the hog complex.

The hogs are given a week to get used to their new environment before the official beginning test weight is taken. They are vaccinated for erysipelas, atrophic rhinitis and ear tagged when the initial test weight is taken. They are then placed on a balanced, medicated ration and wormed once a month.

At the completion of the test the hogs are shown in the chapter Market Hog Show and area vo-ag departments are invited to judge the classes.

When the hogs are slaughtered, carcass data is retrieved and a summary sheet is sent to each participant, explaining how their hog(s) performed in the test. The chapter presently has 32 hogs on test and are gearing up for their market show.

The most recent addition to the swine complex is a registered Chester White bred gilt, courtesy of the freshman class who bought it cooperatively. They chose the gilt out of the pen of nine and have the responsibility of caring for and farrowing the gilt, registering the litter, and continuing the breeding of the gilt and her offspring.

Kevin Vannoy, left, and Kevin Prange putting up a disease free herd sign.

Chapter hog manager Mike Browning is taking a weight reading as part of the system. Assistant manager John Resa and Robin Allen are helping.

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PETERSBURG — R H Farm & Home
QUINCY — George Keller & Sons
VANDALIA — Michael Feed Store
WATSON — Maryman Grain & Supply
WATSEKA — Double JJ Western & Saddle

INDIANA
ANDERSON — Madison Co Farm Bureau
EVANSVILLE — Bar Nunn Western Wear
GREENFIELD — Hancock Co Farm Co-op
KENDALLVILLE — Steckley's Mill
LOWELL — G & F Farm Store
MOORESVILLE — Morgan Co-op
NOBLESVILLE — The Hitchin Post
PERU — Peru Grain & Coal Div
RENSSALAER — Smith Farm Supply
WARSAW — Toms Feed Service Inc

IOWA
ATLANTIC — Cappel's Inc
BLAKESBURG — Boemmerman Feed & Grain
BONDURANT — Farmers Elevator Co
BURLINGTON — Sunset Western Store Inc
CHARITON — Chariton Feed & Grain
DAVENPORT — Circle M Saddle Shop
DEWITT — Yoder Feeds
ELDON — Eldon Elevator
HILLS — Stutsman Wholesale Feed
HOLSTEIN — Western Corner
IDA GROVE — The Leather Shack
IOWA CITY — Fleetway Stores Inc
KEYSTONE — Folkmann Feed & Grain
LENOX — Nelsons Western Shop
MARENGO — Marengo Farm & Home
MARION — Fleetway Stores
MARSHALLTOWN — A & W Western
Kroeger Farm Center
MUSCATINE — Fleetway
Sweetland Feeds
NEVADA — Story Farm & Home Inc
OSKALOOSA — Wakes Inc
SIGOURNEY — Cassens
SIOUX CITY — kay Dee Ranch
SOLON — F J Krob Elevator
SPENCER — Buggy Whip
TRAER — D & T Western
W LIBERTY — Freds Feed Service
W BRANCH — West Branch Farm Sply
WEBSTER CITY — Neighborhood Barn

KANSAS
COLBY — 2-B Feed & Farm Sply
OVERLAND PARK — Shepliers Inc
ST FRANCIS — Mill & Seed
WILSEY — Dahlquest Feed & Gr

MICHIGAN
IRON MT — Krans Supply
WILLIAMSTON — Producers Co-op Elev

MINNESOTA
BENSON — West Central Livestock Supply
MORRIS — G K Western Store
PRESTON — Dairy & Farm Supply
SLEEPY EYE — Romberg Western Wear
THIEF RIVER FALLS — Fleet Ost
WILLMAR — Bonnie Lee Saddle Shop

MISSOURI
JOPLIN — Devore Saddlery
LEBANON — Lebanon Farm Center
MEMPHIS — Foss Grain Co
MT GROVE — Mt Grove Farm Center
NEVADA — Vineyards
OZARK — Christian Co Farmers Asc
SOUTHWEST CITY — Double J Feed
SPRINGFIELD — Preferred Farmers Inc
Tindle Farm Supply
THAYER — Thayer Farm Center
WEST PLAINS — Jetters Wholesale Sply

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COZAD — Wayne's Farm Supply
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HASTINGS — Jahnkes—The Tack Room
LEXINGTON — Dawson Feed Center
Farm & Home Service
NORFOLK — Western Corral
NORTH PLATTE — Tanner Livestock
OMAHA — Shepliers Inc
SCOTTS BLUFF — Nebraska Saddlery

NORTH DAKOTA
JAMESTOWN — Outlaw Ranch Outfitters
MINOT — Tumbleweed Toggery
WEST FARGO — Stockman's Supply

OHIO
CAMBRIDGE — J Bar C Western Store
Rolling Hills Landmark
EDGERTON — Rosedale Stables & Harness Shop
HANOVERTON — Hanoverton Feed & Supply
HILLSBORO — Sweetwater Farm
JEFFERSON — Masons Western Shop
LANCASTER — Crazy Horse Tack Shop
LEWISVILLE — Sutherland Valley Farm
MARYSVILLE — Union Landmark Inc
NORWALK — Huron Landmark
SCIO — Willow Run Western Store
ST PARIS — Pony Express Western Shop
THORNVILLE — Auto & Farm
URBANA — Champaign Co Farm Bur

SOUTH DAKOTA
BROOKINGS — Dakota Stockman's Supply
HURON — State Snyder Drugs
KADOKA — Sims Custom Leather
MITCHELL — State Snyder Drugs
PARKSTON — Statz Drug Store

WISCONSIN
BURLINGTON — Springbrook Feed Co

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(Continued from Page 25)

farm. But now I want to help the farmer get his point across. And I have a new goal—to be the first female Secretary of Agriculture."

In a few years, look for her name on the President's Cabinet.

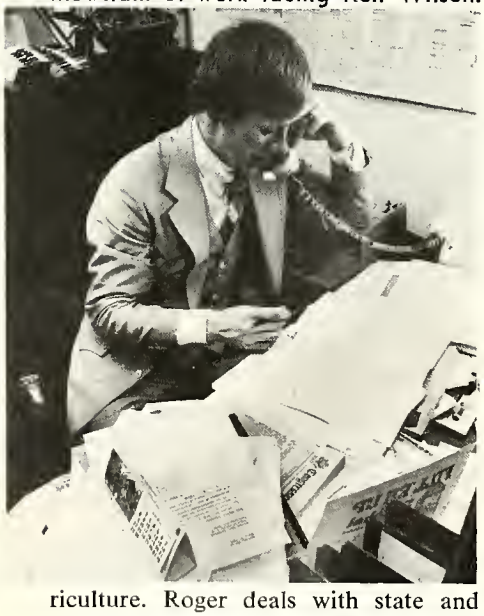
"I can have a direct influence on the future."

—Roger Sandman

Roger Sandman set a goal in high school to teach agriculture. He worked hard as an FFA member in Cambridge, Nebraska, serving as chapter president two years and earning the State Farmer degree. After college, he reached his goal of teaching vo-ag and advised FFA for 5½ years. But he had a hobby on weekends—politics.

Now, he's Deputy Director for Intergovernmental Affairs, an important branch of the U.S. Department of Agriculture. Roger deals with state and local governments nationwide, along with farmers, giving him a golden opportunity to have an effect on U.S. agriculture.

An FFA desk calendar perches on the mountain of work facing Ron Wilson.



"I can have a direct influence on the future," he says, with a fulfilling smile. "I deal with all facets of agriculture. If anyone has a problem with any USDA program, from food stamps to commodities, we're the contact point. We trace the problem down and do our best to solve it to mutual satisfaction. That makes the job exciting. No two days alike."

Roger credits the FFA for building his ability to serve in a leadership role. Sitting in his D.C. office, he says, "If it hadn't been for FFA, I wouldn't be here today. FFA members do and should dedicate themselves to building character and personality."

Roger began building his leadership ability early. FFA activities and training in parliamentary procedure helped him land an officer spot in Nebraska's Young Democrats Club. Later he took the reins as the youngest Director of Agriculture in Nebraska history. The move to Washington came in January, 1979.

"There's one way to improve the environment of our industry," insists Roger regarding agriculture. "That's government. Our government will be no better than its worst citizen. The primary function of government is serving people. FFA members should learn how the system works and how it affects their field. To get things done, you must get involved in government and work within it."

Roger suggests all FFA members keep an awareness of government action in agriculture. Today's legislation will affect tomorrow's graduate of vocational agriculture.

"The FFA teaches how to voice views and present them in a believable manner," he continues. "In it you learn to work with people and make that initial good impression.

"To prepare yourself for a role in government or public leadership, don't be afraid to become involved. Work hard and use common sense. As you see opportunities, make a commitment and stick with it. And remember it takes time to attain ambitions."

Certainly, staying involved and doing his best is helping Roger Sandman shorten the distance between his goals.

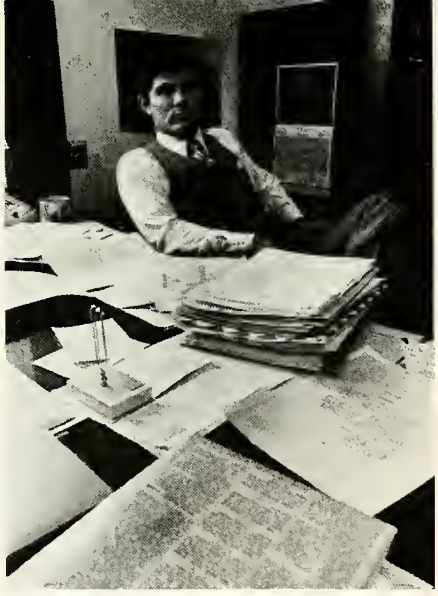
"FFA training . . . a part of working with Senate."

—Will Feland

Ron Wilson and Will Feland have never met, but both are knee-deep in agricultural legislation. Their day is very similar, yet both experience a wide variety of fast-paced government action.

Ron and Will, former FFA members from Kansas and Arkansas, respectively, are legislative assistants for U.S. Senators. Ron works with a Washington staff of 25 for Kansas Senator Nancy Kassebaum. Will answers to Arkansas Senator David Pryor. Both men, like Roger Sandman, lay claim to a strong FFA background and another field of work previous to their governmental chores.

"I was an ag loan officer at a small country bank," says Will, recalling his previous position. "I knew people who were active in Senator Pryor's campaign, and they told me this job was open. I'm still involved in Arkansas agriculture even though it's 1,000 miles away."



For Senate staffer Will Feland, politics and agriculture go hand in hand.

Will says he's always had an interest in politics and agricultural policy. An agribusiness major in college, Will armed himself with the knowledge needed to handle his present job. But it also takes special abilities.

"Nearly half the time, I answer questions from farmers about policy, upcoming farm programs and problems with agencies. The other half is spent working with legislation. My education helps there.

"But I draw on FFA training too. FFA emphasizes public speaking and parliamentary procedure, both very much a part of working with the Senate. It built my confidence and introduced me to different areas of agriculture. If you're interested in a government job, get involved and branch out to many activities.

Ron Wilson, a past National FFA Officer from Kansas, finished his bachelor's degree in agricultural education at Kansas State University last year. His sights were set on teaching but a "fluke" encounter directed him to Washington.

"One day," he says, "I happened to see a professor at K-State who had worked here. He mentioned the job was available so I looked into it and applied. Even if I go back to teaching, I think it's good to have an understanding of the system here. Both jobs are very 'people oriented.' "

Ron echoes many of Will's feelings, but adds, "My job breaks down to three things. At the top of the list is farm legislation. That's why we're here. I do considerable research and writing on

(Continued on Page 41)

It's an empty "Show Barn" without it!

Walk the stalls at any livestock show and you'll find Calf Manna! You'll also find animals with championship potential. Animals that exhibit true genetic ability and the tender-loving-care of a concerned owner. But breeding and management are only part of the story. It takes more to build a champion. And that's why Calf Manna is there! Fast gains and top condition are the results of efficient feeding programs which include Calf Manna, a highly fortified concentrate. It belongs in the feeding program of any animal destined for show or sale. Begin feeding Calf Manna now, and join the majority of major show winners who know what it takes to build a champion!

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Taking a Lion's Share

Cody and Kelly Glenn mix work and play to get the most from their western environment.

The Glenns always find time to laugh together, evidence of their strong family ties. Here, Cody and Kelly share a light moment with mother Wendy.

By Gary Bye

THE mesquite logs burning in the fireplace gave off a pleasant warmth. It had been dark for over an hour in the Chiricahua Mountains and a chill rain was falling.

Suddenly they burst into the room. Beads of rain splattered against the hardwood floor as they swept off their hats to extend hands in greeting.

The larger man was Warner Glenn. In his mid 40's, he stood 6'6" and looked as lean and strong as a mountain man. His father Marvin, trailed behind, was smaller but the picture of health at 66 years.

"Bet you were getting tired of waiting," Warner spoke to me first, grinned, then hugged his daughter Kelly. Kelly Glenn, 18, and Cody, her 16-year-old brother, were the FFA members that had prompted my visit.

Warner and his dad had been on business—hunting their 450th mountain lion. They had made a kill the day before and needed another to fill their quests quota. They'd been on its trail when rain had washed away the scent and eliminated any hope for the day.

The Glenn family has been guiding lion hunters in southeast Arizona for nearly 40 years. Three generations are involved, Marvin and his wife Margaret, Warner, Kelly, Cody and their mother Wendy.

While I'd been waiting for their return that Sunday night, Margaret had let me thumb through their scrapbook. Entries read like the script for a first-rate nature film:

Time: October 29, 1978. Place: Riggs & Lamberson Ranch. Catch: Two lions.

"Bud Holland called and said Dan and Roger Barnett had jumped two lions south of the ranch near Castle Dome and wanted me to bring some hounds and trail them. Incidentally, Bud had lost 27 calves that summer and was anxious to get these lions. Dan and Roger got shots at the two lions but didn't get a clean hit. The dogs, Jack, Spot, Clair, Mollie and Jan trailed the female and bayed her on the ground. The other had gone into a cave. Don crawled back into the cave with a flashlight and shot a large male lion."

Marvin began the business in 1939 "out of necessity. Cattle were selling for 3 cents a pound and the extra money was needed to support the cattle ranch." Since then they've led generals and millionaires, dudes and ranchers in search of big game. The Honorable William O. Douglas, now retired from the U.S. Supreme Court, killed a lion here in 1953.

Kelly and Cody have been infected with their family's enthusiasm for ranch life. They feel a part of the Glenn operation and hope to carry it on. "I'm going to help out on the ranch next year after I graduate," says Kelly. "Maybe I will go to school later but now I only want to be on the ranch full time."

The operation actually includes two ranches 52 miles apart. Cattle are run on all 36 sections of total acreage. The ranch Kelly and her family live on once belonged to Texas John Slaughter, rancher and marshal of Tombstone, Arizona. From their home they can point to the spot where the famous Indian warrior, Geronimo, was captured. Six miles of the ranch borders Mexico.

Approximately 300 head of cows are cared for on the two ranches. Since forage is sparse, only about one cow is allowed for every 73 acres.

The family's love of the old West has surfaced in the form of a family museum located next to the Warner Glenn house. Filled with relics, the museum also acts as the home for visiting hunters.

To fill the museum the family only had to explore the nooks and crannies of their expansive ranch. Among their collection they have pottery from ancient Indian tribes, a rifle discarded or lost by some ill-fortuned frontier hunter, and a huge beartrap probably used by one of the area's first white men. Arrowheads and grinding stones are also on display showing the lifestyle of the people native to the area.

The collecting process has become a form of family recreation. Sometimes even the neighbors are called in to help, like when ten people and a horse were recruited recently to retrieve a giant iron wheel from a forgotten lumber mill located high in the surrounding mountains.

The wheel will eventually serve as part of a decorative framed entry to a new house the Glenns plan to build.

"We probably work as hard for recreation as we do around the ranch," says Cody. "But we enjoy it cause we're doing it together," he adds reemphasizing the importance of their family closeness.

Family is also a factor in their involvement in FFA. Parental support for Kelly and Cody couldn't be better since their father was the first president ever elected by the Douglas, Arizona, FFA Chapter.

Kelly and Cody have both entertwined their FFA activities with life on the ranch, game hunting and raising cattle. As a freshman, Cody was runner-up to the Star Greenhand in the state. Last year he and Kelly teamed up with the chapter's range management team, which placed second at the state contest.

Kelly, on the other hand has won three proficiency awards at the state level, one each in Fish and Wildlife Management, Poultry and Placement in Agricultural Production. This year she is Douglas FFA Chapter secretary.

Last year the two experienced excellent results with their own beef feeding operation. They each bought ten steers from Mexico, fattened them to sell at a substantial profit. "We took advantage of a price hike in cattle," says Kelly. She and Cody then used their profits to share in the purchase of a 1978 Ford pickup.

The transportation is necessary. Her family lives 22 miles from Douglas. All but two miles are on dirt roads. Her grandfather's ranch and hunting headquarters lie 30 miles in another direction from Douglas over similarly rough roads.

Looking far from ferocious, a Glenn tracking dog rests up before the hunt.

Despite the rough roads, hunters find their way to the ranches from everywhere. Working with new people each year is part of the adventure, according to Kelly. Last year, for example, she was to meet a pair of hunters flying in from Texas. Expecting two middle-aged men, she was pleasantly surprised when the private Lear jet landed and two hunters almost her own age crawled out.

"They were some of the best clients we've had," she says with a schoolgirl grin.

The hunts are professionally organized and cost from $250 for a two day javelina (wild pig) hunt to $1,000 for ten days of hunting mountain lions. Glenns also guide hunts for deer, fox, coyote, bobcat and an occasional bear.

Everything for the trip is provided including the Glenns' hunting expertise. As we sat around the large wooden table that night at dinner, a young couple from Louisiana talked of their amazement with their guide's skill.

"The hunt is really thrilling," says the young lady, "but the most unbelievable part is watching those two men run to the top of a mountain and back in a matter of minutes without even slowing down."

Although success on a hunt is not guaranteed, Glenns have established a record close to perfection. "Our hunters have averaged a 97 percent success rate over the years," says Warner Glenn.

Guiding is still men's work. Kelly and Cody make no pretenses about their own lack of experience. However, both are slowly working their way into the operation, learning as they go.

Cody goes on every weekend hunt he can and usually fills in on the hunts during Christmas vacation. He has been on four full ten-day hunts.

Kelly rides on the deer hunts and often performs the ranch chores while the men are gone. That means feeding a dozen or so pack horses and 22 tracking hounds. It can also mean (and it did when I was there) watching over the pregnant cows.

Finally it was time to go. I was full of delicious food and respect for the old and new West. As Kelly guided the new Ford pickup over the mountain road towards the lights of Douglas, I concluded that this land was a place for strong people. People like Cochise and Geronimo, John Slaughter and Pancho Villa. And today it still takes strong people to survive here. People like the Glenns.

Kelly and Cody will do just fine too, I thought.

Rangeland becomes the horizon behind Cody, creating a contrast to the hay provided for a pair of robust bulls.

Kelly talks on the only ranch "telephone," a C.B. radio. Windmills are sole providers of life-supporting water.

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Gasohol

(Continued from Page 20)

who use 16 percent of the nation's energy, stabilized fuel prices could mean enhanced incomes.

Widespread usage of gasohol could have a tremendous effect on the U.S. farmer. The USDA reports national consumption of fuel using ethanol would call for a sharp increase in grain production to meet both food and energy needs. Can America's land stand the pressure?

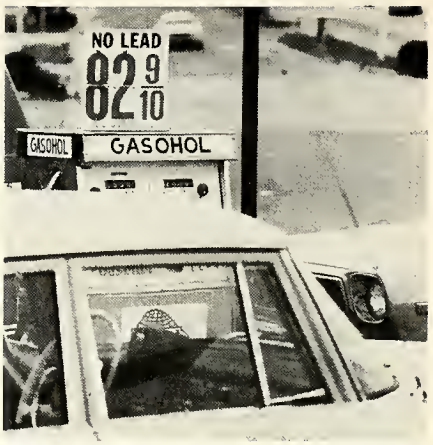
"The basic raw materials for alcohol fuels are grown year after year on American farms," says U.S. Senator Birch Bayh of Indiana, chairman of the National Alcohol Fuels Commission. However, more than half of the nation's land area is already used to produce crops and livestock. Half a million acres of cropland is lost each year to urbanization. And over the last decade, total land in farms has declined 4 percent. Many agricultural leaders say soil can be permanently damaged if overused.

Development of mass production of ethanol for fuel mixing would definitely create new market demand for grain and other agricultural products. One fuel-alcohol facility, scheduled to begin operation in 1980, will need 20,000 bushels of corn, milo, or wheat each day to produce an annual output of 20 million gallons.

Generally, economists agree that high crop receipts would result from an increased demand for grains. And consumer food prices?

"Gasohol can open up entirely new markets for the family farmer without resulting in higher food prices at the grocery counter," adds Senator Bayh. But a USDA report says a subsidized ethanol market would sharply increase feed prices, an increase that could be passed on to the consumer. Obviously, much of the economic impact would be determined by the extent to which edible grains were used—an as-yet unknown factor.

Present and future farmers realize machinery is one of the reasons for rapid strides in farm output per man-hour. We know, too, the U.S. is not an oil-rich nation. Yet the challenge to produce more goes on. And with it comes an unquenchable thirst—one that craves a new fountain from which to drink. Alcohol from grain, a renewable natural resource, could become a valuable oasis for the U.S. and her farmers.



Proponents say gasohol's price will soon be more competitive as oil prices rise.

Gasoline vs. Gasohol

	Cents Per Gallon Gasoline	Gasohol
Gasoline @ .38	**38.0**	**34.2**
Ethanol @ .96	**—**	**9.6**
Product Price	**38.0**	**43.8**
Transportation	**3.0**	**3.0**
Station markup	**9.0**	**9.0**
State Tax*	**8.0**	**8.0**
Federal tax	**4.0**	**4.0**
Pump price of product	**62.0**	**67.8**

*Currently 35 states tax gasoline at the 8 cent rate or higher.

"For some reason she's not hitting on all four in the parlor."

Hudson Brothers

(Continued from Page 24)

the subject. FFA awards covering the Hudson den wall all seem to represent a different story—no time to stray from the subject while each is explained. Each plaque holds a memory.

Tommy remembers wanting out of vocational agriculture after his first day in class, due primarily to a lack of affection for instructor Johnny Mathias. But Lois Hudson persuaded her son to stay in a week. Now Tom, like Billy, attributes most of his personal development to Mathias, the advisor who guided both boys to regional awards.

Tom and Billy began in FFA with no special advantages. Neither was raised on a farm; neither had easy access to facilities with which to carry out a Supervised Occupational Experience Program. But they kept their eyes and minds open and opportunities soon arose.

"Both of us started out with a garden," says Tommy. "Dad was an engineer on a tour boat for a large resort close-by so Billy eventually got a chance to work as a deckhand. I soon began working for the resort's golf course as greens, fairway and tee maintenance man. I started out raking sandtraps and pushing mowers but worked up to overseeing plant growth and health."

Billy, too, wound up becoming a golf course horticulturist but Tommy is declared "the real expert" by his brother. And, certainly, expertise is a must for proper care of the course's delicate greenery.

"The action of the ball depends greatly on the condition of the 'green' or the short-trimmed grass around a course hole," says Tommy. "Since a quarter-inch height is ideal, special techniques are employed to maintain grass growth. For example, we use bentgrass on the greens because it's very uniform. One seed brings up one blade, whereas a grass like bermuda spreads. You must be careful to remove any foreign grasses because once it invades, you have to kill the entire green and resow."

Billy, regional winner of the Outdoor Recreation Proficiency award, adds, "The greens get the most pampering. They are attended with pesticides, herbicides, and irrigation. Fertilization is also important. We usually use a mixture with a good amount of nitrogen to assure greenness and good growth. Fairways, the areas between holes, are kept green largely for psychological and appearance reasons but they too are aerated and fertilized."

Far different from a farm or house, golf course greens must be cut with a special machine called a triplex. The razor-sharp blades don't chew the grass like conventional lawn mowers, but do indeed cut it. A very short, bentgrass "carpet" emerges as the result of pampering and controlled cutting. For such turf, a unique watering method is also employed.

"Greens are watered in the morning to knock dew or frost off," explains Tommy. "Bentgrass requires a misting instead of a hosing or spraying. You can tell if the grass needs a misting by simply walking on it. If you can see your footprint on the turf, it needs water."

Besides the specialty work, the brothers are kept busy in many facets

Billy works in two main phases of the resort's operation: golf and boating.

of the course operation. Raising bedding plants, planting pines and ornamental shrubbery, cutting sod and constructing bridges over ponds and streams are in the Hudsons' realm of duty. And through it all the brothers have devoted overtime to the FFA.

Combined, the two have held all chapter offices with the exception of reporter. Both have been active in public speaking and parliamentary procedure. Committee work and judging also get a share of the Hudsons' time. Tommy holds the chapter Star Agribusinessman award and Billy received the annual outstanding FFA member award from the local Ruritans. To make things complete, the Hudson parents are recipients of the Honorary Chapter Farmer degree.

It's no wonder everybody knows the Hudsons. And no wonder they can joke about their blunders—such moments are rare occasions.

BREAKS CORN YIELD RECORD

LEIGH Ann Janes is the first girl to grow a corn crop yielding in excess of 300 bushels per acre. And she is the first FFA member to break Lamar Ratliff's long-standing 304.38-bushels-per-acre mark that has been dangled in front of FFA members as the standard to beat since it was established in 1955.

Leigh Ann, a 15-year-old sophomore from Walnut, Mississippi, produced a yield of 304.49 bushels per acre on a 1.099-acre test plot last season.

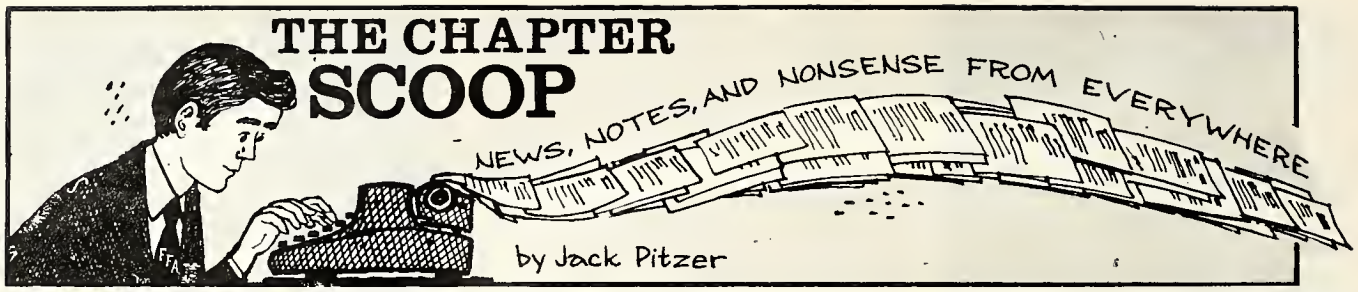
Leigh Ann will receive a ring and a trophy from the producers of Funk's G-Hybrids for winning this year's 304 Bushel Challenge corn yield program. In addition, her FFA chapter will receive a check for $1,000 because she surpassed Ratliff's former record.

Leigh Ann's name will also join the elite list of individuals who have produced the 12 known corn yields to exceed 300 bushels per acre. Five of those yields were produced by FFA members.

Leigh Ann, using Funk's G-4848, planted her plot in 38-inch rows on May 25 and harvested on October 12 at 13.5 percent moisture. Her planting population was 32,000 plants per acre. She used 500 pounds of 8-24-24 as a fertilizer preplant and sidedressed 230 pounds of anhydrous ammonia at the first cultivation.

Her crop was flood irrigated twice, once at tasseling and again two weeks later. She used ½ pint of banded 2,4-D and cultivated twice for weed control. She used no insecticide.

Leigh Ann is the daughter of Mr. and Mrs. Roy Janes. According to her FFA advisor, Fred Bullock, Leigh Ann is an honor student.



Corsages for every mom at the *Wirt County,* WV, FFA banquet were made by chapter treasurer **Sharon Adams.**

N-N-N

Recreation committee chairman **Dennis Rudie** set up a ski trip for 75 *Bonduel,* WI, FFA members. No injuries were reported.

N-N-N

Buster Halsey, bass; **Scott Carpenter,** baritone; **Steve Edmondson,** tenor; and **Skip Welsh,** lead, are the now famous *West Point,* AL, FFA quartet after appearances at the athletic banquet and at the Miss West Point contest.

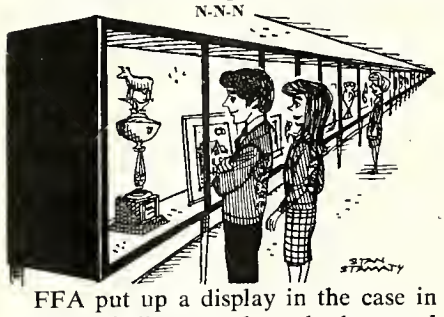
N-N-N

Early, TX, Chapter had a real Texas get-together barbeque for members and their families.

N-N-N

Sentinel **Kurt Hart** is the only guy on the *Leslie,* MI, Chapter officer team.

N-N-N



FFA put up a display in the case in the main hallway to show the long and proud history of the organization and the *Windsor,* MO, Chapter.

N-N-N

Eight members of *Imperial,* CA, Chapter formed a singing group called the "Imperial Swingers."

N-N-N

The first Greenhand degree ceremony in history of *Manchester,* NH, Chapter was held for **Darlene Aubert, Cecil Brace, Cindy Prewett, Shirley Dennis, Shannon Dennis, Randy Hetzel, Joey Bishop** and **Sharon Garfield.**

N-N-N

It was a surprise birthday party for State President **Glenn Caves** when he visited the *Utica,* MS, Chapter on his birthday.

N-N-N

Each guest at *Bennett,* IA, FFA banquet gets a tomato seedling grown in vo-ag class.

N-N-N

Commissioner of Agriculture and Commerce Jim Buck Ross spoke at *Northeast Jones,* MS, banquet.

N-N-N

A free throw shooting contest at halftime and sponsored by *Divide County,* ND, FFA raised $300 for charity.

When the week nights were all busy, *Hooker,* OK, FFA scheduled chapter meeting on Saturday morning. Invited members and parents to eat pancakes and sausage.

N-N-N

School spirit needed a boost in *Keota,* IA, during football season, so FFA used its button-making machine to promote the team. (Sold the buttons to students and made bucks for FFA too.)

N-N-N

Families participated in a dessert supper (everyone brought some and tried everybody else's—even swapped recipes). Then *Columbia,* MO, officers led Vespers service.

N-N-N

FFA demonstrated proper ways to fold and care for the American flag to *Tampico,* IL, elementary schoolers. Afterward when asked if they knew what FFA stood for, a fourth grader volunteered, "Flag Folders Association."

N-N-N

Chickens, raised by FFA Alumni, were barbequed outdoors and served at parent-member banquet of *Kelso,* WA.

N-N-N

There are four divisions within the *North Lenoir,* NC, Chapter—ag resources, ag production, ag mechanics and horticulture.

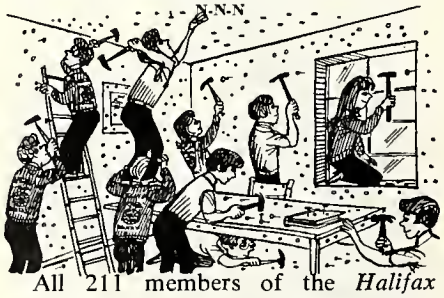
N-N-N

Girls in *Richfield,* UT, Harvest Ball queen contest have to catch a pig, saddle a horse, milk a cow and drive a tractor.

N-N-N

Teddy Hansen, Lonnie Walker and **Riley Young** of *Hopkins,* MO, FFA were in the magazine cover photo on *Missouri Ruralist,* February issue.

N-N-N



All 211 members of the *Halifax County* FFA in VA participated in a nail driving contest.

N-N-N

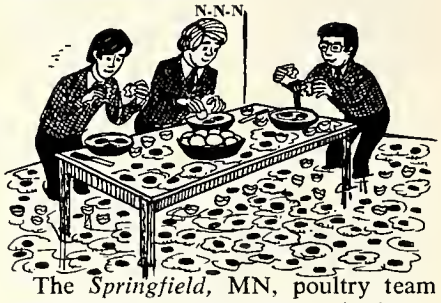
It never hurts. *Oshkosh West,* WI, FFA gave every teacher a big Red Delicious apple one cold snowing day in December.

N-N-N

Inventory takers—that's a way to make money for *Gresham,* OR, FFA.

Ted Hunt, *Union City,* IN, got out his snowmobile during the bad weather and sold over $200 worth of FFA garden seeds to folks anxious to think ahead for spring.

N-N-N



The *Springfield,* MN, poultry team won state and in preparing for national, cracked over 20 dozen eggs.

N-N-N

There were 41 girls and 47 boys initiated as Greenhands in *Boonsboro,* MD.

N-N-N

First chapter to receive Julian Carter award for parliamentary procedure in VT Association was *Lamoille Union.*

N-N-N

Lori Spohr, reporter for *East Noble,* IN, FFA, uses "Quincy", a large pink fuzzy puppet to open up audiences when she gives presentations.

N-N-N

All members of *Fairbanks,* OH, FFA are CPR trained.

N-N-N

Radio WJON/WWJO in Minnesota honored **Terri Maslowski,** *St. Cloud Technical* High FFA and **Lori Schroden,** *St. Cloud Apollo* High FFA for their chapter leadership.

N-N-N

A triple crown winner—took BOAC, Safety and Chapter Emblem in WY—was Pinedale Chapter with **John Buyer** as president.

N-N-N

On the way home from OR state convention, a van load of *Douglas* FFA'ers got into a snowball fight with busloads from *Sandy* and *Molalla* Chapters. *Douglas* was out-numbered but got their revenge. They made better time by van than buses and so stopped down the road, made a big supply of snowballs and ambushed the two buses when they passed.

N-N-N

A television appearance about fire safety on a local talk show is the work of *Roslyn,* SD, FFA.

N-N-N

Let's hear from more chapters about new ideas, fun events, achievements of individuals and other news, notes or nonsense. Share the wealth!

Tough choice

Marine Regular

You'll start with tough training. Because nobody likes to fight, but somebody has to know how. As a Marine Regular, you'll know how.

After boot camp, depending on your occupational specialty, you'll go to school or to on-the-job training to learn anything from air traffic control to telecommunications maintenance to food services. Or combat arms, the "cutting edge" of the Corps.

Stick with it, and you'll travel the United States and the world. You could even be part of an embassy detachment or serve as a sea-going Marine aboard command ships of the U.S. Navy. Ships like missile cruisers and aircraft carriers.

The Marine Corps offers a challenging, good-paying occupation. With free medical and dental care. And thirty days paid vacation every year.

And something else...the pride that comes only with earning the title: United States Marine.

Mail the card, or call 800-423-2600, toll free. In California 800-252-0241.

The Few.
The Proud.
The Marines.

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You'll start with tough training. Because nobody likes to fight, but somebody has to know how. As a Marine Reservist, you'll know how.

After boot camp, you'll continue your 130 days of active duty with more training. In fields like electronics, motor transport and combat arms. All the same opportunities that Regular Marines have.

After school, you'll return home to pursue a civilian career. You'll attend drill meetings one weekend a month and two weeks of training each summer so you can keep your Marine Corps skills sharp, your body in shape.

As a Marine Reservist, you've got a challenging, good-paying, part-time job. A job that offers travel, skills training and community involvement. And an inner confidence that has to help you in your civilian career.

And something else...the pride that comes only with earning the title: United States Marine.

Mail the card, or call 800-423-2600, toll free. In California 800-252-0241.

The Few.
The Proud.
The Marines.

The Official FFA Calendar

By Wilson Carnes, Editor

THE time was Thursday, October 13, 1949, at the morning session of the National FFA Convention and this is how the action is recorded in the Convention Proceedings of that year:

"The eighth session of the convention was called to order at nine o'clock with the opening ceremony, President Conner presiding.

"The first item of business was the FFA Calendar. Executive Secretary Tenney introduced Mr. Frederick S. Wilson, whose company has agreed to produce the calendar. Mr. Wilson discussed the production of this calendar at some length. Meron of Massachusetts moved to accept the idea of adopting an FFA calendar; motion seconded by Burch of Florida and carried."

With that vote the delegates to the national convention had put the FFA into the calendar business. Considerable investigation and discussion had preceeded this action. The proposal had also been reviewed with the various state FFA associations.

The idea of an FFA calendar had been discussed for many years. Nothing had been done about it, however, until a Virginia bank submitted a request for permission to feature the FFA on a calendar they wanted to distribute in the community. This prompted the FFA to take action.

The Osborne Company of Clifton, New Jersey, was given a contract to develop and sell calendars bearing the name and emblem of the FFA on a royalty basis. The calendars would be sold by salesmen employed by the company who would call upon business firms in the community. Before selling the calendar the salesman was to first call upon the FFA advisor for his approval.

Because calendar companies must work well in advance, the first produced was the 1950 calendars, published and sold in 1949. The home calendars contained 12 pages and covers using scenic farm pictures for each month. The first year 49,000 copies of the FFA calendar were sold. Sales increased rapidly and other styles were added.

The calendar program was considered successful as conducted by the Osborne Company but some criticism of the program had developed. The calendar salesmen did not always check with the local ag teacher before selling the calendars which meant that sometimes the calendars were purchased by one business when the ag teacher would have preferred another business. It was said that some salesmen "shamed" the local businessmen into buying.

The suggestion was made that if FFA is going to have a calendar, the FFA organization should publish it and thereby have complete control of production and distribution. It was also believed that the calendar would make an excellent companion for the magazine and would help provide needed finances for the magazine.

The magazine staff began investigating the advisability of taking over the production, sale and operation of the Official FFA Calendar program. After careful study, the National Officers and the Board of Directors at their July, 1955, meeting authorized *The National FUTURE FARMER* to take over the FFA Calendar program and publish the 1958 calendar. Mr. Cedric Lafley, a former ag teacher who was serving as assistant state supervisor and FFA executive secretary in Vermont, was employed April 1, 1956, as associate editor and placed in charge of the calendar program. Chapters would sell the calendars, and get a 25 percent commission instead of the 10 percent under the old plan.

After Mr. Lafley's death in December of 1958, Mr. Howard Carter, the assistant FFA executive secretary in Oklahoma, was employed in early 1959 to head the calendar program. When Carter resigned in 1966, Mr. John M. Pitzer was named associate editor in charge of the calendar program and continues in that position.

The practice of having a well-known artist paint the cover picture for the calendar has been continued. These beautiful oil paintings have given the FFA a priceless collection of FFA art. The originals now hang in the National FFA Center at Alexandria, Virginia, and may be viewed there by visitors.

A number of changes have been made in the calendar program and the calendar styles have been modernized and updated. In 1978 the styles of calendars and numbers sold were: Home and Office—170,000; Indoor Poster—39,838; Desk—25,586; Wallet—374,100; and Watch Crystal—30,530.

Today 1,587 chapters are participating in the Official FFA Calendar program and receive its fund raising and public relations benefits. The monthly pictures used in the Home and Office style emphasize important aspects of the vocational agriculture/FFA program—following a central theme and telling this story for a full year while hanging in the community. A chapter can choose one or all of the five styles available and participate in one of three plans.

As FFA enters its second half-century, the Official FFA Calendar is firmly established as an important public relations program of the FFA.

1953 full color F. F. A. "Indoor Billboard" illustrated by famous artist Harold Anderson measures 31" x 42½"

Home calendar, multiple pictures all in full color. Opens to 7⅞" x 16¾".

Roll calendar for farms, homes, offices, etc., measures 19½" x 29". Also with full color illustration.

Three styles of FFA calendars for 1953 were offered in an advertisement in *The National FUTURE FARMER.*

Proven Massey-Ferguson Combines

ACRE-EATING GIANTS WITH A GENTLE BITE.

Proven. That's the best description of Massey-Ferguson combines. With features that have made them harvest leaders. The massive MF hi-inertia cylinder helps maintain constant threshing speed. So you get more clean, whole grain in the tank. And you control both ground speed and header height with a single lever. That makes your job easier.

Big-capacity combines that are gentle on your crop. With Massey-Ferguson combines, you've got what it takes.

MF
Massey Ferguson

Choose from four models

MODEL:	MF 540	MF 550	MF 750	MF 760
Engine	Perkins 4-cyl. 318 cu. in. (5.2 litres)	Perkins 6-cyl. 354 cu. in. (5.8 litres)	Perkins 6-cyl. 372 cu. in. (6.10 litres)	Perkins V-8 540 cu. in. (8.85 litres)
			← Perkins 6-cyl. Turbocharged 354 cu. in. (5.80 litres) →	
Cylinder size	22" x 37" (559 mm. x 940 mm.)	22" x 45" (559 mm. x 1143 mm.)	22" x 50" (559 mm. x 1270 mm.)	22" x 60" (559 mm. x 1524 mm.)
Grain tank	110 bu. (3.87 m³)	125 bu. (4.40 m³)	140 bu. (4.93 m³)	180 bu. (6.34 m³)
Table size	10' to 20' (3.04 m. to 6.09 m.)	10' to 24' (3.04 m. to 7.32 m.)	13' to 24' (3.96 m. to 7.32 m.)	16' to 24' (4.88 m. to 7.32 m.)

You've got what it takes with Massey-Ferguson.

Southwest Chili Farming:
Spice for the Country

By Don R. Martin

SINCE the time of the "conquistadores," chili has been a part of Southwestern culture. A member of the potato, tomato and pepper family, chili has flourished in popularity since being brought north by Spaniards from Mexico and other Latin American countries. It is now prized as a vegetable and seasoning throughout the United States.

The production of chili has appealed to many FFA chapters throughout southern New Mexico because of its adaptability to the soils and climate and the potential of good monetary return. The pungent pepper has many uses, reason for chili's popularity as an agricultural product.

Rich in protein and vitamins A and C, chili is known as the "health food" of the Southwest. Native New Mexicans spread concoctions made from green or red chili on nearly every dish from morning eggs to steak at night. Virtually every restaurant throughout the region keeps a small pot of green chili "salsa" (sauce) on the customers' tables.

Another use for chili, especially for the bright red variety, is in production of "ristras," a three to five-foot string of chili hung beside front doors to bring good luck to those housed inside. After a winter of guarding the home from evil spirits, red chilies are already sun-dried to perfection and can be crushed to powder and used as seasoning.

Chili farmers sell most of their product through contracts. Contract usage is a form of risk alleviation against low prices on the cash market. Per pound, green chilies sold for 7 to 8 cents last year, with the red variety much higher at 80 cents to $1. Though the average income per acre runs close to $1,500, expenses require about 70 percent of gross revenue.

Thousands of chili-growing acres dot the landscape of one particular New Mexico region, the Hatch Valley. Here, the red chili market is provided with yield from 75 percent of the acreage, with green chilies grown on the rest. Yield per acre of dehydrated red chili approaches 4,500 pounds annually.

The green chili season is slightly longer than that of the bell pepper, with harvest beginning in mid-August and ending at the first freeze. However, the growing period depends on the stage of maturity desired. If early fruit is removed as it matures, total yield improves. Plants may also be picked early due to lack of irrigation water, a requirement throughout the growing period. Green chilies hit the roadside stands in mid-July.

Photo by Author

Gilbert Ogaz of the Hatch, New Mexico, FFA shows off a "ristra" to fellow chapter members (from left) Debbie Gillis, Julie Russell and Randal Russell.

Red chili harvest begins after the first freeze, or when pods turn bright red, and ends when the last suitable pod is picked. The fruit must then be dried with artificial heat.

Both red and green chilies are canned as sauces, with beans or meat and in tamales and enchiladas. In the Hatch Valley alone, ten factories process the pods for market.

Though tons of chilies are processed for use in commercial products, the peppers may also be prepared for cooking uses by the individual consumer. But be careful. Particular varieties, such as Jalapeno (pronounced Holl-o-peen-ya), can make a novice's eyes water and tongue burn for hours!

To properly prepare chilies for kitchen use, first peel the skins to bare the flesh for further processing. "Blistering" the fresh chili pod on an outdoor barbeque grill is the first step in peeling.

Once the chili is well-blistered, plunge it into very cold water to separate skin from flesh. Peel back the skins, and then either dry or crush the flesh into a flake or powder. The flesh may also be chopped and mixed with other ingredients to make salsa or other liquid seasoning. Salsa may be frozen or canned in its mixed form for later use.

You too can learn what Southwesterners have known for years. The enjoyment of chili, either red or green, doesn't just stop at a harvest's monetary return—it continues to the menu!

(Continued from Page 28)

agricultural issues. A large part of what we do with legislation is respondent to the needs of our constituents. So we monitor the mail and draft responses for the Senator's review. The third part involves case work—farmers with problems."

> ***" . . . farm legislation— that's why we're here."***
>
> ***—Ron Wilson***

Ron says no set formula exists for grabbing a job in agriculture's public sector. He concludes that without FFA, he wouldn't have found the job. Finding it is one thing but getting it another.

"Awareness is the key," he instructs. "Be constantly aware of the opportunities around you. FFA offers chances. It's the oldest story in the books and it's still successful."

Ron believes agriculture is the closest thing to a free market system in the U.S. He says government is playing an ever-increasing role in that system, and the role is in need of input from farmers themselves.

FFA members can speak up for laws governing their industry of agriculture and related areas. But it takes study and concern. Even Ron Wilson confesses, "I learn more and more the longer I'm here." Then he adds, "Thank goodness."

Regardless of whether a job in government is in your future, your voice can sound in the halls of The Hill. Be it by casting a vote or writing to Congress, it's all a part of "living to serve."

"What do you mean, 'Act of God'? You didn't say anything about God when you sold the seed!"

WELDERS ARE AMONG THE HIGHEST PAID CRAFTSMEN IN THE WORLD.

GOOD SALARIES ARE BEING PAID RIGHT NOW here in the U.S., in Alaska, the Middle East and South America for experienced pipe welders. Jobs are open on construction projects, pipelines and oil rigs. With a diploma from Tulsa Welding School, and a few months experience, you can be on your way to travel, adventure, and good money nearly anyplace in the world.

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Class periods are only six hours a day and you can choose a morning, afternoon or evening schedule.

HOW MUCH DO OUR GRADUATES EARN? Mail us the coupon and we will send you a list of the exact salaries at which our recent graduates have gone to work. You will also get a colorful booklet showing the training you would receive and complete course information.

BETTER YET, CALL US right now. We will answer all your questions and read you our current list of available jobs. Our phone number is: (918) 587-6789. Collect calls are welcome.

TULSA WELDING SCHOOL
3038 Southwest Boulevard Tulsa, Oklahoma 74107

Mail today for complete information.

Gentlemen: FF679

Rush me a complete information packet including course description, class starting dates, and a list of the jobs and salaries at which your recent graduates have gone to work. I understand there is no obligation on my part.

Name _____ Age _____

Address _____ Phone _____

City _____ State _____ Zip _____

Approved for training under GI bill and for B.I.A. training.

FFA IN ACTION

SIX ON THE SLOPES

The Gilman, Wisconsin, FFA Chapter hosted all six of the National Officers, March 10-11, for an enjoyable and relaxing visit in the north country.

This visit in the snow is becoming a regular stop on the National Officers' tours and for the past five years the Gilman Chapter has hosted three sets of National Officers.

The relaxing part of the visit is the Perkinstown Winter Sports Area which is a slope and other snow fun facilities operated by the Gilman FFA. The National Officers usually take some skiing lessons and this year's team did quite well at skiing.

On Sunday the 11th, many Gilman FFA members plus the officers and advisors went snowmobiling and cross-country skiing with the national team.

The group was split up evenly and each went snowmobiling or skiing. Advisor Ken Brager demonstrated cross-country skiing while Advisor Keith Duley instructed snowmobiling. All of the officers learned quite rapidly what was needed to ski and snowmobile well. *(Tom Micke, Reporter)*

PULLING FOR VICTORY

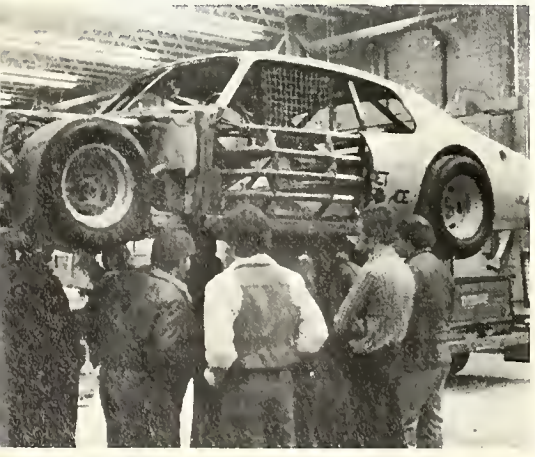
Final activity of the Pinedale, Wyoming, celebration during National FFA WEEK was sponsoring four events at the annual Winter Carnival in their community. They sponsored the Elk Hide Race, the Skiing Race, the FFA Slave Sale and a Horse Pulling contest.

THE PARTS MAN

The February chapter meeting for Zillah, Washington, was highlighted by a visit from Fred Bernier, a late model sportsman NASCAR racer.

Fred was the guest instructor for a safety seminar that was conducted with our chapter. Fred brought down his number 22 racing machine as a visual display.

The car came apart so that students could actually see the how and why.



All day he explained how the cars are built including suspension, chassis, frames, engines, brakes, fuel systems, transmission and drive line/rear end combinations.

Taking parts off of his car and showing their function helped the students to see just exactly what goes into a car and how the stress of racing can put even the best car in a dangerous situation. This was a very interesting presentation and helped us all realize that safe driving and constant maintenance should be part of our driving routine. *(Larry Wolf, Reporter)*

FOR THE BIRDS

"It's for the birds" may be a time-worn cliché to most. To Hal Hudson of the Casey, Illinois, FFA Chapter, it is a phrase he may often use—referring to his pheasants.

Hal has been interested in pheasants for five years and about a year ago, after researching the breed of birds thoroughly, he began preparing a place to raise them.

Because they have strong wings (he doesn't clip them) and like to fly, Hal designed his pens with tall sides and a sagging wire mesh top to prevent them from hurting themselves as they fly against it.

For starters, he found one of his dad's wire corn cribs makes a perfect pen. He has built more pens since that first one and his flock includes both ringneck and silver pheasants.

One of the big problems in raising pheasants is their cannibalistic habit. They lay their eggs and then proceed to break the shells and eat the contents. Hal tried feeding them oyster shells so they would have no appetite for the eggs but that didn't work, so he now debeaks all his adult birds.

He hatches the eggs by incubation, which takes 24 days and has a 70 percent record of successful hatching.

For now, the pheasants are a part of his Fish and Wildlife Management program. In the future, however, he hopes to make a business of raising pheasants to sell for restaurants.

Raising pheasants in Illinois requires

(Continued on Page 44)

How do the good ol' boys come up with so many 22 ideas?

They hunt.

22 Short Solid Point
22 Short Target
22 Short Hollow Point
22 Short Mini-Cap
22 Long Solid Point
22 Long Rifle Solid Point Standard Velocity
22 Long Rifle Solid Point High Velocity
22 Long Mini-Cap
22 Long Rifle Shotshell
22 Magnum Shotshell
22 Magnum Hollow Point
22 Long Rifle Hollow Point High Velocity
22 Magnum Solid Point
Stinger Penta-Point

It's taken long hours of stalking tin cans, rats and rattlers to bring you the widest variety of 22 ammo available today.

And as shooters from way back, the good ol' boys at CCI know there are about as many different uses for 22 ammo as there are targets.

That's why they offer everything from Mini-Caps to WMR shotshells. Hollow points and solids. Shorts, longs and long rifles. Standard velocity, high velocity and match.

And a lightning-quick little beauty called the Stinger, that'll whip the pants off any regular 22 LR in the world.

But variety isn't all that's come of the good ol' boys' plinking. They've learned some important things about ammo construction, too.

Like how to make case heads stronger by reinforcing this critical area with a unique inner belt. And how to prevent gunking up your gun by coating the bullet with a hard lubricant instead of a soft one.

Nope, you'd have to look long and hard to find a bunch more dedicated to their work than the good ol' boys. And their ammo shows it.

In fact, there's only one thing the boys spend more time at than hunting up new 22 ideas. And that's testing 'em out in the back forty.

Load up on ammo info.

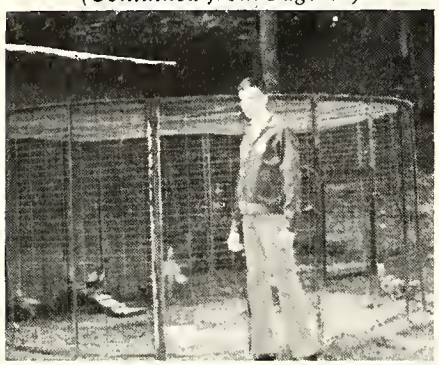
Just send a buck to The good ol' boys, P.O. Box 856, Dept. NFF 6-79 Lewiston, Idaho 83501. And they'll shoot you back their new Ammunition Guide, plus a decal and a CCI shooter's patch.

Sporting Equipment Division
OMARK INDUSTRIES
Snake River Avenue, Lewiston, Idaho 83501

Get the whole shootin' match from the good ol' boys: CCI primers and ammo, Speer bullets and RCBS reloading tools.

FFA IN ACTION

(Continued from Page 42)



Hal discovered an old corn crib would do just right for the pheasant cages.

a wild game breeder permit; $5 a year if the breeder does not sell or eat them and $10 if they are to be butchered and sold. *(Marjorie Johnson)*

FFA SWINGS

The Little Lions FFA Chapter of State College, Pennsylvania, started "swinging," square dance style that is, several years ago for the state farm show (Pennsylvania's Winter Fair). The farm show hosts a folk dance festival each year which is divided into three age groups. There are numerous FFA and other youth groups in competition for ribbons and prizes.

The Little Lions Chapter became involved in square dancing for several reasons. One, the festival is held the same week as the FFA Winter Convention and this allows chapter members to attend both the farm show and convention in the state capital, Harrisburg. Two, square dancing is a wholesome social and recreational activity for the FFA chapter members. Three, it also provides a good public relations tool. The dance teams go to elementary and junior high schools to square dance and talk about what FFA and vo-ag offers to prospective students. And four, the chapter also sponsors dances as a fund-raising activity and as a community service for others in the area that like to attend square dances. Folk dancing is a popular hobby for the school district which includes the college community of Penn State University.

Experienced members (veterans) of the Little Lions FFA dance teams help to recruit new members and teach them the new dances. All you need to organize a set are four boys and four girls—four couples—interested in having some good fun. There are "How to . . ." books available to teach you the basic steps plus many records and tapes available with printed "calls" or directions with them. Often there are community members experienced at square dancing that can help you learn the basics. *(Leanne Fye)*

The chapter's dance square also made their matching outfits for competition.

THE STARS CAME OUT

It must have been some kind of historical event at this year's Hendricks, Minnesota, FFA banquet. Special guests were all Stars of the FFA. Pictured with Advisor Wosje in the center, are left to right, Dwight Buller, Hendricks, Minnesota, 1977 Star Farmer of America; Tim Amdahl, Flandreau, South Dakota, 1976 Star Farmer of America; Maynard Augst, Montgomery, Minnesota, 1978 Star Farmer of America; and Mike Deming, Owatonna, Minnesota, 1977 Star Agribusinessman of America.

FACTS FOR ACTION

There is a critical shortage of teachers of vocational agriculture in our nation. The shortage has been growing over the last few years. The problem is hitting not only the large schools which need more than one teacher to handle the number of vo-ag students enrolled, but it is so severe that some schools have no teacher and have to close the department.

This does not even take into account those schools who seriously wish to start new programs.

According to the National FFA Alumni newsletter, a minimum of 18,000 students were deprived of training in vocational agriculture during 1977-78.

Why the shortage? A good question! Salaries of non-teaching jobs in agriculture often attract teachers away with talent who want advancement. More support of community and school administration, less hours of extra time and other personal desires cause others to leave the profession. Starting salaries of non-teaching jobs for college graduates with ag-ed degrees may attract some away right out of college before they ever teach.

The problem seems to be numbers of men and women entering agricultural education in college. More FFA members should consider an ag teaching career. The background of membership and participation in FFA plus the classroom experiences in vo-ag would make you a valuable asset to any vo-ag department after graduation from college.

STATE CONVENTION EXCITEMENT

The whirlwind excitement of Nebraska's State FFA Convention was like a three-ring circus. Advisors had their chapter members involved in judging events on the ag campus of the University of Nebraska. Band and chorus members were practicing for a concert. State officer candidates were being interviewed by a committee. Official voting delegates were having the as-usual exciting parliamentary battles during business sessions. Various kinds of public speaking contests were held for prepared and extemporaneous and Greenhand Creed. Then there were junior and senior "parli pro" contests and demonstration contests. You could add to that a state FFA Alumni Association meeting attended by local affiliate leaders. Meanwhile, someone found a bas-

(Continued on Page 46)

DIRT. CHEAP.

If you've made the happy decision to get into off-road riding and you're looking for the right machine at the right price, look no further.

Introducing the MX100 and MX175, two tough, reliable, Yamaha-to-the-core dirt bikes that just about anyone can ride.

And afford.

The full-size MX175 has Yamaha's exclusive motocross-bred Monoshock rear suspension to soak up the worst bumps and jolts. Leading-axle front forks provide optimum wheel travel and quick, precise steering.

The MX100 is a unique, intermediate-size bike that's ideal for beginners, especially youngsters. The seat height is extra-low for stable, confident handling. Full-sized rear shocks and long-travel front forks assure comfortable cruising and responsive control.

Both bikes are powered by race-proven Yamaha two-stroke engines. The easy-shifting 5 and 6-speed transmissions are geared for efficiency and versatility. And our patented Autolube System automatically mixes your gas and oil so you can concentrate on having fun.

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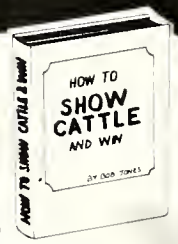

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FFA IN ACTION

(Continued from Page 44)

ketball and some hot games took place on the outside courts in the spring sun. And more than a few piled into the pizza place across the street.

It was all leading up to Friday night's Stars Pageant to name the State Star Farmer and Star Agribusinessman. Mark Poeschl was the upfront man as state president. Behind the scene was the hard working Executive Secretary Ted Ward and State Advisor B. E. Gingery.

A SAFE SNOW SCENE

The Marysville, Ohio, FFA in cooperation with Union County 4-H and area snowmobile dealers, sponsored a snowmobile safety clinic and rally for the central Ohio area in February.

The clinic began with registration, then a talk by the county sheriff on the lawful operation of a snowmobile on and off public highways. A movie was shown on snowmobile safety entitled "The Unsafe Ace" by John Deere; and safe operation and maintenance was discussed by a local dealer. Participants were also able to see another snowmobile enthusiast movie showing scenes from Yellowstone National Park.

After safety talks, participants were required to pass a safety course consisting of weaving a snowmobile through a series of cones including starts, stops and turns. Those who were interested in snowmobiling but did not own one were offered a loaner from a local dealer and were able to complete the safety clinic.

After completion of the obstacle course participants were allowed to compete in a timed course of obstacles. Winners were given trophies. The rally was concluded by a cross-country trail ride in which those participants who owned snowmobiles were allowed to be involved. Over 100 participated and the day was considered a success. *(Lynn Miller, Safety Committee Chairman)*

ALUMNI INVENTOR

The Mission Valley Chapter of Ronan, Montana, has been awarded a distributorship of a new product, recently invented and patented by a former member of the Mission Valley Chapter.

Tom Walchuck, a former chapter member and a successful farmer and cattle rancher in the area, invented and patented an insulator that fits on the wheels of wheel-line irrigation systems.

Chapter officers with inventor Tom Walchuck and the movable insulator.

It eliminates the need for a post for installation of electric fences on wheel-lines that can then be used for pasture rotation. It also keeps livestock away from the wheel lines preventing wheel and wheel-line damage caused by livestock rubbing against the wheels.

The insulator is so designed that you can string fence uphill, downhill and around corners with no inconvenience and the wheel-line can be moved with the insulator in place.

Mr. Walchuck has given a distributorship to the Mission Valley Chapter who can offer this money-making project to other FFA chapters that are interested. *(Gene Bennett, Advisor)*

SHOW AND TELL

The Auburn, Illinois, FFA, in cooperation with the Illinois Department of Agriculture, had an exhibit at the large White Oaks Mall, in their state's capital city, Springfield.

The chapter exhibit included a seed and picture exhibit, along with a new tractor. The display was presented to the public from 9 a.m. to 9 p.m. as part of Illinois Agriculture Day. No exact count was taken but there was a steady flow of people all day to talk with the Auburn FFA members who manned the exhibits.

The large official FFA emblem was covered with a variety of crop seeds. The pictures were all related to chapter activities and showed the members at work in various chapter activities.

Our chapter works closely with an implement dealer in town and by cooperating with him we were able to have a tractor at our display. *(Mark Kessler, Reporter)*

FORTY FOR FORTY

Over 350 guests and members attended the annual Anamosa FFA parent-member banquet April 6, 1979, at the high school. Being our 40th anniversary, the 40 past presidents were invited back. Lloyd Brickley, our first vice president and second president spoke on how the FFA was when he was a member and how it had changed. Chuck Howlett, our Iowa Association president brought greetings from the

Iowa Association FFA and shared with us highlights of the year as president. Honorary Chapter Farmer degrees were bestowed on Mr. and Mrs. Dean Edwards, our chapter president's parents and Mr. George Shover, the high school custodian for their help and support throughout the year. Six members were presented scholarship awards, 18 members received proficiency awards and the advisors were presented tokens of appreciation. The highlight of the night was the crowning of the new FFA sweetheart, Barb Ulferts, and the announcement of new officers.

State officers met with Curt Edwards president of the chapter, right center.
Photo by Brian Fulford

ACTION LINES

- Have a breakfast picnic.
- Have a volleyball tourney after chapter.
- Give packs of garden seeds to senior citizens or little kids.
- Build a new picnic table for down by the creek.
- Fly "Old Glory" in your yard.
- Be sure there's adequate life preservers and things down at your pond.
- Plant some bright red or yellow flowers next to the trash.
- Give your advisor an FFA name tag for other meetings.
- Plant some brussels sprouts.
- Take a canoe trip.
- Be the first in your chapter to take up golf.
- Transplant some fern from the woods to your yard.
- Bring a rock home from camp and start a rock garden.
- Go by and try to make the Greenhand feel like he'll be welcome next fall.
- Talk to somebody new today.
- Do you have an FFA stick pin?
- Color a picture with little brother. Use just your favorite color crayon.
- Tell the graduating seniors you'll miss them.

You could win $500
for telling 20 million Americans what you think about Agriculture!

Salute to Agriculture

In 1776, nearly every American was a farmer. Today, only one American in seventy, yet we are the greatest food producing nation on earth.

One-fourth of everyone who ever lived is alive today. Farmers must feed this hungry world.

Today's farmers are made of the same pride, grit and independence that helped our forefathers mold this remarkable country.

And we need to continue to develop new generations of agriculturalists prepared to lead, feed and succeed.

Like the farmer who plants in hope and cultivates in faith, we are as optimistic about America's agricultural future as we are proud of her past.

This inspirational message won first prize for Kansas FFA member, Jim Ramsbottom. It was shown during the 1978 National Finals Rodeo Telecast.

A contest exclusively for members of the FFA... sponsored by Hesston Corporation, to be presented on National Finals Rodeo Telecast in December.

Members of FFA are invited to submit in writing (in approximately 100 words or less) a message on the importance of agriculture to the economy and standard of living in North America (including Canada). The winning entry will be developed into a one-minute public service TV message and shown during the telecast of the final performance of the National Finals Rodeo.

This program is seen by an estimated 20 million viewers and is sponsored by Hesston Corporation and participating dealers. Copies of the winning entry, suitable for framing, will be available to anyone upon request.

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RULES

Complete rules are available from National FFA office, local Hesston dealers or by writing Hesston Corporation. Formal entry form is not required.

1. Entrants must be bonafide members of FFA.
2. Message must be approximately 100 words or less on the importance of agriculture to North America (including Canada).
3. Entries will be judged entirely upon content and originality. Quotations of others are acceptable but must be identified.
4. Entries must include the name, date of submission, address, phone number of the entrant and the name of his FFA Chapter, legibly written.
5. In case of similar or duplicate messages, the one with the earlier postmark will be declared the winner. All entries become the property of Hesston Corporation.
6. Entries will be judged by a panel of agri-industries executives selected by Hesston Corporation. Decisions of judges are final and not subject to appeal.

Entries must be postmarked no later than September 30, 1979,and mailed directly to Hesston Corporation, Hesston, Kansas 67062, Attn: Salute to Agriculture Contest.

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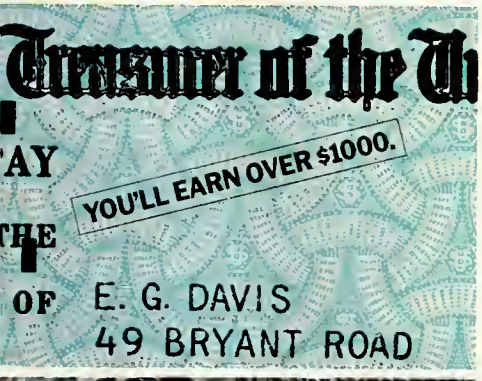

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Specialist 4 William Bacon, HHC, 187th Inf. Bde. (Sep) USAR, Ayer, Massachusetts

A Harvest From The Bay

Relying on a time-tested boat and a hunch or two, the Hudnall brothers farm the acreage of the sea.

By Jeffrey Tennant

BILLY and Bobby Hudnall spend a lot of time at the old fishin' hole. They're usually up by 4 in the morning, usually on the water by 5. A quiet creek harbors their boat, the "Juanita," not 20 yards from the family's back door. The boat is idle now, stayed by ice surrounding her hull. It's winter and the Hudnalls aren't fishing—their prey rests in unreachable depths to escape the cold.

The brothers don't go after perch, trout or bass. They fish for money, cash made from harvesting little saltwater creatures that helped both Bill and Bob win regional and Virginia State FFA proficiency awards in Fish and Wildlife Management. Both fellows will tell you straight—commercial crabbing isn't all fun in the sun.

Billy, 19, and Bobby, 16, headquarter their operation two miles inland from a rather large fishin' hole, the Chesapeake Bay. James, the father, was born and raised on the same land and fished the same waters. For over 62 years, talk of farming the sea has filled the early morning air around the Hudnall breakfast table—tales about storms at sea, prize catches of crabs and oysters, and some surprises. Like unwelcome visits by net-tangled varmints of the ocean.

"I've been crabbin' here since I was this high," says James, aligning hand to waist. "I used to push around in a skiff [a light rowboat] and use a trotline. I'd have a line one-half to three-quarters of a mile long with a baited string dangling in the water every three feet or so. I'd wait a while, the crabs would take the bait, I'd pull in the line, skull the skiff and bale the crabs, solo." The bay area jargon means he'd guide the boat and get the catch on board—alone.

"Then, about 30 years ago," the fisherman recalls, glancing at his two sons, "crab pots came in. That's all we use now."

Crab pots are to bay fishermen as chainsaws to lumberjacks. They're not necessary, but they make life a whole lot simpler—and more productive.

"The pots are made of mesh wire," explains Bobby, his arms shaping an imaginary trap. "They're 20 inches wide and 24 inches deep. Crabs are funneled in from the bottom, swim upward and can't go back down. The pots are attached to buoys that float on the surface."

Both brothers agree the fishing industry is becoming an important type of farming. The Hudnall family tends the soil as well, growing soybeans, wheat, barley and corn. But the bay gets the most attention.

Billy, left, and brother Bobby are partners and teamwork yields success.

"It's hard work but it's profitable," assures Billy. "You always try to outwit Mother Nature. You can't do it but you try to catch as many of those critters as you can."

Not unlike cattle, sheep, or other animals, those "critters" come in differ-

ent types, shapes and sizes. "Jimmies" (male crabs), she-crabs (females), and sooks (older females) are among the crustaceans hauled in to the "Juanita" when pots are retrieved.

Much of the work involved to prepare the catch for market is done in the boat, but the first task is finding a spot rich with shellfish.

"First we wait for warm enough weather, around mid-March," Bobby says with a note of anticipation. "There's actually no season on crabs but they hibernate in winter. They keep buried in deep-water mud until the bay warms to around 48 degrees. Crabs can be dredged, or scraped from the bottom, but we don't do it."

When milder temperatures trigger the crabs' annual ascent from the deep ship channels, droves of the shellfish head for the shallow shoreline. It's then that the Hudnalls, and hundreds like them, begin their seasonal gathering. The work is fiercely competitive and demanding of one's intuition as well as muscles.

"There's no limit on the number you can catch," says Bobby. "But if you catch too many at once and show it, other people will fish your territory. We all fish the same waters, so you have to be both colleague and competitor."

The Hudnalls begin their fishing in early spring—in time to get a jump on a few rivals.

"The earlier you start, the deeper you have to fish," Bob says. "We'll usually drop 80 feet of line in at first and work up to 25. We'll start out with around 150 pots in the water. A fathometer on the boat helps find slews (sea valleys) where the crabs might be, and then it's just a matter of moving the pots around to find a good population."

Although the crabber's quarry can't be seen through briny waters, a time-tested method of pinpointing bountiful sites is used by the Hudnalls. The line-holding buoys, marked with owner identification colors, are placed in a wide circular radius. Then, vouches Bobby, checking each string becomes a daily chore. Should one string yield more loot, other pots are gradually moved to that area.

Billy, with the certainty of an old campaigner, says, "When we work up to 300 pots a day, the fun begins." He chuckles at his own sarcasm. "Depending on how many pots are dropped, we'll use over five bushels of trash fish just for bait. We bring in the crabs all day using a hydraulic line puller and sort on the boat. We get busy but things like the proficiency award make us want to work harder."

Naturally, the profit motive serves as another incentive. Not including the four-figure cost of buying and rigging a boat, fuel needs and pots tug on the fisherman's wallet. Prices paid the crabber for his haul, as in other types of raw foods, are based on quality of the meat.

"Premium prices come before June," says Bobby of the economics. "We get about $15.00 per barrel of mixed and $12.00 a bushel, 40 pounds, for prime crabs. Basically, a mature crab with a softer shell means better meat and a higher price."

Sorting the catch begins with the dumping of a pot onto a culling board. Much of the grading relates to length, but a measuring stick is only used for a short while. After sorting thousands of crabs, affirms Billy, lengths can be determined within fingernail thickness.

Sex, another grading standard, is determined by the crab's underside, or apron. The male apron is long and thin, the female, triangular shaped. Shell color also aids in the classing process.

Though their work is unique in many ways, the Hudnalls agree that FFA's emphasis on proper management and concern for natural resources has furthered their fishing ventures. Billy and Bob, like their father, will one day know the bay like a farmer knows his fields.

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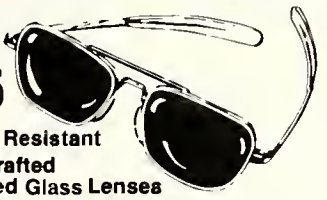

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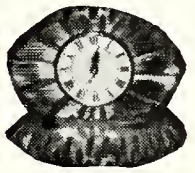

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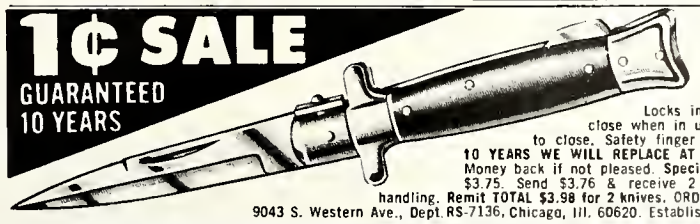

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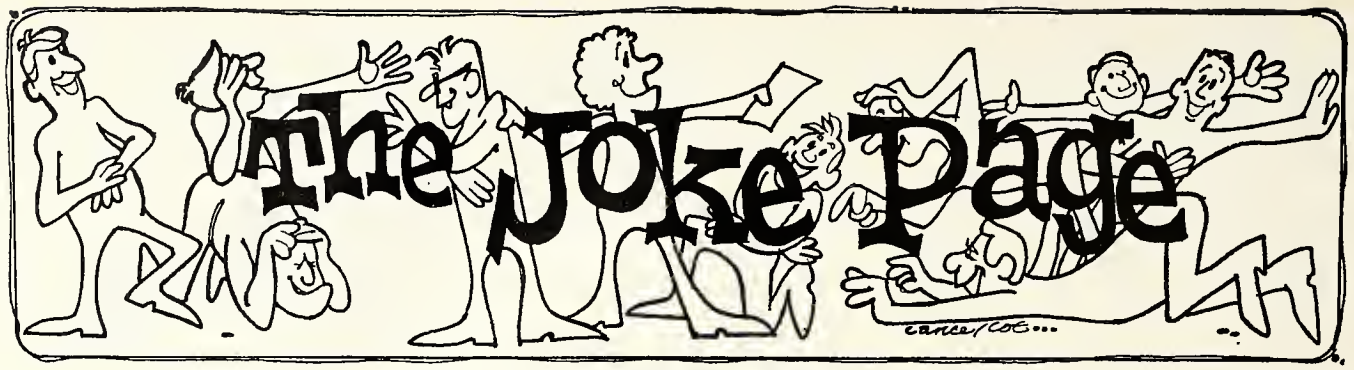


First lady: *"My husband was named Man of the Year."*

Second lady: *"Well, that shows you what kind of a year it's been."*

Thomas LaMance
Modesto, California

At the supermarket a woman crowded ahead of another. *"I hope you don't mind,"* she said, carrying a single can. *"All I wanted was this catfood."*

"Not at all," replied the other woman cooly. *"You look hungry."*

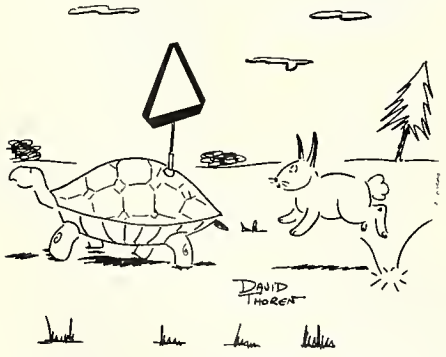
Theresa Gartner
Preston, Minnesota

"In Africa I killed a lion 13 feet long."
"That's some lyin'."

Nell Fullard
Waycross, Georgia

Definition of a small town—where they have to widen Main Street to put a white strip down the middle.

Karla Nelson
Ellsworth, Wisconsin



A farmer was sentenced to jail for 60 days at the beginning of the planting season. However, his entire income depended upon the potato crop. His wife sent him a note saying, *"Do you think I'm going to dig the field and plant the potatoes myself?"*

The farmer sent back a reply saying, *"Don't dare dig up the field. That's where the guns and money are hidden."*

A week later his wife sent him another note saying, *"Somebody must be reading your mail. Today some men were here. They dug up the entire field. What shall I do now?"*

"Now you can plant the potatoes," answered the farmer.

Joe Elyard
Bedford, Pennsylvania

Two goats wandered into an alley behind a motion-picture theater. There they found a can of film, which one of them devoured.

"How was it?" his companion asked.

"All right, but the book was better."

Henry Leabo
Jamestown, California

The fish hadn't been biting all day and the fisherman was sadly heading his boat toward the dock in late afternoon when a large fish leaped out of the water and landed in the boat.

Immediately the fisherman picked it up and flung it back into the water. *"If you won't bite,"* he snarled, *"you're not gonna ride."*

Teresa Brown
Liberty, Kentucky

Fred was visiting his neighbor John and noticed three holes cut in the bottom of the door with hinged flaps that swung in and out for John's cats.

"Why three doors?" said Fred, *"Couldn't they all go out one hole?"*

"Nope," John replied, *"I have three cats and when I say 'scat' I mean 'scat.'"*

Jason Moore
Liberty, Kentucky

If Abraham Lincoln were alive today he wouldn't have such a hard time getting an education. His height would have automatically qualified him for a basketball scholarship.

Janey Lambert
Bridgeport, Texas

Joe Ag: *"Do you know why they stopped using covered wagons?"*

Jane Ag: *"No, why?"*

Joe Ag: *"They had Injun trouble."*

Nate Lee
Thompson, Iowa

A farmer, on his first visit to the city, was fascinated by the paved street. Scraping his feet on the hard surface, he remarked, *"Can't blame them for building a town here. The ground's too hard to plow anyway."*

David Smith
Greenwood, Nebraska

"What's your job?" asked the cannibal chief.

"I am editor of the city paper," replied the captive.

"Good," smiled the cannibal. *"Tomorrow you'll be editor-in-chief."*

Willie Crawford
Fairmont, North Carolina

Charlie, the Greenhand

"Charlie does not remember that is where we had last year's test plot and that is the row we poured on the fertilizer."

The National FUTURE FARMER *will pay $2.00 for each joke selected for publication on this page. Jokes must be submitted on post cards addressed to* The National FUTURE FARMER, *Alexandria, Virginia 22309. In case of duplication, payment will be for the first one received. Contributions cannot be acknowledged or returned.*

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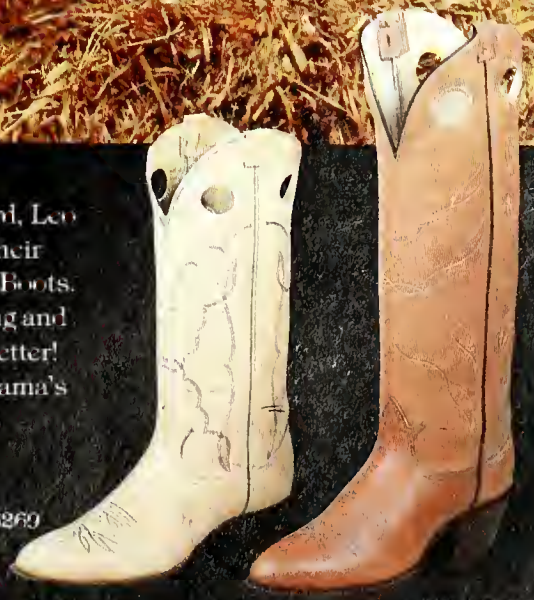

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Unless, of course, you change the ingredients.

At Marlin, we know the importance of following a good recipe. And we prove it in the Marlin 39A. After 85 years, it's still the Cadillac of 22's.

Every Marlin 39A is built with six solid steel forgings for exceptional strength. Breechbolt. Hammer. Trigger. Lever. And two-piece receiver. After machining, each part is heat-treated for even greater durability.

There's a genuine American black walnut stock. A solid receiver top for easy scope mounting. A 24" Micro-Groove® barrel. A simple, reliable action. And a patented magazine closure system for solid locking and easy releasing.

The 39A is easy to take down, too. A few turns of the thumbscrew separate the two-piece receiver for easy cleaning.

The Marlin 39A. Also available in 39M straight-grip carbine version, with a 20" barrel. See the entire Marlin line, and popular-priced Glenfield guns, at your dealer. Also, ask for our new catalog. Or write and we'll send you one.

Incidentally, anyone high school age or younger can win up to $2000 in the Marlin Hunter Safety Essay Contest. Students must be enrolled in, or have completed, a Hunter Safety Course. Write for entry form: Marlin Firearms Company, North Haven, CT 06473.

Marlin® Made now as they were then.